

195 200 205
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
 210 215 220
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
 225 230 235 240
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
 245 250 255
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
 260 265 270
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
 275 280 285
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
 290 295 300
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
 305 310 315 320
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
 325 330 335
 Ile Lys Glu Lys
 340

<210> 708
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 708
 Met Val Arg His Ile Arg Glu Arg Arg Arg Gln Pro Leu Ala Phe Gln
 1 5 10 15
 Arg Val Leu Leu Ser Leu Cys Leu Leu Glu Gly Ile Trp His Ser Pro
 20 25 30
 Ala Ala Ala Ala Gly Gly Gly Ser His Cys Ser Ser Trp Pro Ser Leu
 35 40 45
 Tyr Thr Thr Phe Gln Arg Val Ser Leu Leu Glu Leu Asp Leu Gly Leu
 50 55 60

<210> 709
 <211> 44
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring amino acids

<400> 709

Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa
1 5 10 15

Val Leu Leu Phe Leu Tyr Cys Leu AlaGln Ser Phe Ala Tyr Ser Arg
20 25 30

His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp
35 40

<210> 710

<211> 20

<212> PRT

<213> Homo sapiens

<400> 710

Met Ala Cys Cys Asn Pro Tyr Lys Tyr Tyr Phe Tyr Leu Ser Cys Ser
1 5 10 15

Val Cys Phe Leu
20

<210> 711

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring amino acids

<400> 711

Met Ser Gly Ser Ser Leu Pro Arg Ala Leu Ala Leu Ser Leu Leu Leu
1 5 10 15

Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Lys
20 25 30

Ser Thr Ile Trp Thr Gly Ser Glu Val Glu Asn Glu Val Val Lys Arg
35 40 45

Lys Gly Lys Asp Arg Arg Lys Ala Ala Val Val Gln Gly Glu Lys Gln
50 55 60

Asp Ala Arg Leu Lys Glu Xaa Asn Leu Cys Leu Arg Ser Ile Pro Glu

Val Gly Tyr Val Gly Pro Ala Asp Gly Ser Leu Tyr Ile
 210 215 220

<210> 713
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 713
 Met Trp Leu Thr Gln Pro Glu Ser Leu Ser Leu Cys Val Ser Val Ser
 1 5 10 15
 Gln Asp Trp Ala His Ile Leu Ala Leu Ser Ile Thr Met Leu Trp Asp
 20 25 30
 Phe Arg Glu Phe Pro His Leu
 35

<210> 714
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 714
 Met Glu Asn Val Cys Gln Ala Gly Phe Pro Ser Leu Leu His Leu Asn
 1 5 10 15
 Ile Thr Leu Thr Leu Leu Gly Leu Ala Gln Cys Tyr Leu Ala Asn Phe
 20 25 30
 Ser Ser Cys Arg Glu Gly Ser Glu His Tyr Leu Phe Phe Phe Phe
 35 40 45
 Leu Leu Glu Pro Gly Leu His Lys Ala Met Ala Lys Phe Ser
 50 55 60

<210> 715
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 715
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp
 1 5 10 15
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His
 20 25 30
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg
 35 40 45

Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile
 50 55 60

<210> 716
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 716
 Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser
 1 5 10 15
 Val Phe Ile Phe Lys Phe Leu Leu Leu Phe Tyr Thr Leu His Ile Ala
 20 25 30
 Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His
 35 40 45
 Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro
 50 55 60

<210> 717
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 717
 Met Ala Ala Gly Pro Ser Gly Cys Leu Val Pro Ala Phe Gly Leu Arg
 1 5 10 15
 Leu Leu Leu Ala Thr Val Leu Gln Ala Val Ser Ala Phe Gly Ala Glu
 20 25 30
 Phe Ser Ser Glu Ala Cys Arg Glu Leu Gly Phe Ser Ser Asn Leu Leu
 35 40 45
 Cys Ser Ser Cys Asp Leu Leu Gly Gln Phe Asn Leu Leu Gln Leu Asp
 50 55 60
 Pro Asp Cys Arg Gly Cys Cys Gln Glu Glu Ala Gln Phe Glu Thr Lys
 65 70 75 80
 Lys Leu Tyr Ala Gly Ala Ile Leu Glu Val Cys Gly
 85 90

<210> 718
 <211> 45
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring amino acids

<400> 718

Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val
1 5 10 15
Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser
20 25 30
Pro Ser Ser Ser Val Leu Pro Glu Ser Va Xaa Arg Glu
35 40 45

<210> 719

<211> 103

<212> PRT

<213> Homo sapiens

<400> 719

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15
Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30
Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45
Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60
Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
65 70 75 80
Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95
Leu Ile Ala Ser Thr Ala Val
100

<210> 720

<211> 73

<212> PRT

<213> Homo sapiens

<400> 720

Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys
1 5 10 15

Val Cys Val Cys Arg Ala Leu Val Ile Pro Thr Glu Gln Arg His Arg
20 25 30
Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val
35 40 45
Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg Gly Glu Arg Gly Glu
50 55 60
Arg Arg Arg Gly Thr Asp Trp Arg Gly
65 70

<210> 721

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring amino acids

<400> 721

Met Ala Leu Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Gly
1 5 10 15
Ser Arg Tyr Gln Gln Leu Gln Asn Glu Glu Glu Ser Gly Glu Pro Glu
20 25 30
Gln Ala Ala Gly Asp Ala Pro Pro Pro Tyr Ser Ser Ile Ser Ala Glu
35 40 45
Ser Ala Xaa Tyr Phe Asp Tyr Lys Asp Glu Ser Gly Phe Pro Lys Pro
50 55 60
Pro Ser Tyr Asn Val Ala Thr Thr Leu Pro Ser Tyr Asp Glu Ala Glu
65 70 75 80
Arg Thr Lys Ala Glu Ala Thr Ile Pro Leu Val Pro Gly Arg Asp Glu
85 90 95
Asp Phe Val Gly Arg Asp Asp Phe Asp Asp Ala Asp Gln Leu Arg Ile
100 105 110
Gly Asn Asp Gly Ile Phe Met Leu Thr Phe Phe Met Ala Phe Leu Phe
115 120 125
Asn Trp Ile Gly Phe Phe Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala
130 135 140
Gly Arg Tyr Gly Ala Ile Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp
145 150 155 160
Ile Leu Ile Val Arg Phe Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly
165 170 175

Gln Tyr Trp Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe
180 185 190

Leu Arg Gly Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Glu Thr
195 200 205

Phe Ser Asn Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr
210 215 220

<210> 722
<211> 139
<212> PRT
<213> Homo sapiens

<400> 722
Met Ala Leu Gly Ile Gln Lys Arg Phe Ser Pro Glu Val Leu Gly Leu
1 5 10 15

Cys Ala Ser Thr Ala Leu Val Trp Val Val Met Glu Val Leu Ala Leu
20 25 30

Leu Leu Gly Leu Tyr Leu Ala Thr Val Arg Ser Asp Leu Ser Thr Phe
35 40 45

His Leu Leu Ala Tyr Ser Gly Tyr Lys Tyr Val Gly Met Ile Leu Ser
50 55 60

Val Leu Thr Gly Leu Leu Phe Gly Ser Asp Gly Tyr Tyr Val Ala Leu
65 70 75 80

Ala Trp Thr Ser Ser Ala Leu Met Tyr Phe Ile Val Arg Ser Leu Arg
85 90 95

Thr Ala Ala Leu Gly Pro Asp Ser Met Gly Gly Pro Val Pro Arg Gln
100 105 110

Arg Leu Gln Leu Tyr Leu Thr Leu Gly Ala Ala Ala Phe Gln Pro Leu
115 120 125

Ile Ile Tyr Trp Leu Thr Phe His Leu Val Arg
130 135

<210> 723
<211> 42
<212> PRT
<213> Homo sapiens

<400> 723
Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val
1 5 10 15

Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe

	20		25		30
Asn	Leu	Gly	Ser	Gly	Lys
	35			40	Asn
					Arg

<210> 724
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 724
 Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe
 1 5 10 15
 Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa
 20 25 30
 Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser
 35 40 45
 Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly
 50 55 60
 Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu
 65 70 75 80
 Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys
 85 90 95
 Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser

	100		105		110
Phe	Leu	Xaa	Ile	His	Trp
	115			Leu	Pro
				120	

<210> 725
 <211> 490
 <212> PRT
 <213> Homo sapiens

<400> 725
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro
 1 5 10 15
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser
 20 25 30
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln
 35 40 45
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val
 50 55 60
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly
 65 70 75 80
 Pro Gly Pro Gly Gly Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu
 85 90 95
 Glu Arg Arg Arg Ser His Cys Thr Leu Glu Asn Glu Pro Leu Arg Gly
 100 105 110
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu
 115 120 125
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Cys Ala
 130 135 140
 Val Leu Gln Ala Thr Gly Gly Val Glu Pro Ala Gly Trp Lys Glu Met
 145 150 155 160
 Arg Cys His Leu Arg Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu
 165 170 175
 Val Leu Cys Pro Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr
 180 185 190
 Arg Ala Pro Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro
 195 200 205
 Gly Thr Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val
 210 215 220
 Thr Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly
 225 230 235 240

Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Bu Arg Ala Gly Lys Cys
 245 250 255
 Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala Cys Glu
 260 265 270
 Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser Cys Val Thr
 275 280 285
 Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly Val Pro Thr Arg
 290 295 300
 Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro Gln Arg Thr Trp Pro
 305 310 315 320
 Ile Arg Val Asp Glu Lys Leu Gly Glu Thr Pro Leu Val Pro Glu Gln
 325 330 335
 Asp Asn Ser Val Thr Ser Ile Pro Glu Ile Pro Arg Trp Gly Ser Gln
 340 345 350
 Ser Thr Met Ser Thr Leu Gln Met Ser Leu Gln Ala Glu Ser Lys Ala
 355 360 365
 Thr Ile Thr Pro Ser Gly Ser Val Ile Ser Lys Phe Asn Ser Thr Thr
 370 375 380
 Ser Ser Ala Thr Pro Gln Ala Phe Asp Ser Ser Ser Ala Val Val Phe
 385 390 395 400
 Ile Phe Val Ser Thr Ala Val Val Val Leu Val Ile Leu Thr Met Thr
 405 410 415
 Val Leu Gly Leu Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln
 420 425 430
 Pro Arg Lys Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu
 435 440 445
 Pro Ala Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val
 450 455 460
 Lys Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu
 465 470 475 480
 Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala
 485 490

<210> 726

<211> 105

<212> PRT

<213> Homo sapiens

<400> 726

Met Thr His Arg Arg His Cys Gly Leu Ala Arg Trp Ile Leu Met Lys
 1 5 10 15
 Ile Phe Cys Trp Arg Val Ser Thr Val Thr Ser Thr Ala Gly Ala Leu
 20 25 30
 Thr Asn Pro His Ser Cys Tyr Thr Ser Val Leu Lys Val Gly Ala Thr
 35 40 45
 Gly Val Gly Gln Ser Leu Ser Val Trp Thr Met Pro Gly Leu Leu Leu
 50 55 60
 Glu Gln Phe Ser Thr Gly Val Glu Leu Leu Leu Ser Ser Ser Arg Phe
 65 70 75 80
 Ser Asn Ser Met Glu Tyr Lys Asn Arg Leu Ser Ser Val Glu Asp Arg
 85 90 95
 Ser Ser Val Val Thr Cys Leu Lys Ala
 100 105

<210> 727
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 727
 Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu
 1 5 10 15
 Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro
 20 25 30
 Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Thr His
 35 40 45
 Ser Ser Arg Ser Ile Leu Ser Phe Ile
 50 55

<210> 728
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 728
 Met Arg Ile His Phe Lys Ile Leu Val Leu Val Ile Tyr Phe Ile Leu
 1 5 10 15
 Leu Gly Ser Phe Ser Asp Arg Cys Ser Leu Leu Asp Cys Lys Ser Arg
 20 25 30
 Ile Gln Arg Ile Phe Ile Cys Asn Ile Leu Asn Leu Ser Leu Val Ser
 35 40 45

Cys His Leu Cys Arg Tyr Ser Phe Asp Cys Leu Thr Arg Gly Lys Cys
 50 55 60

Phe Pro Leu Ser Phe Pro Ala
 65 70

<210> 729
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 729
 Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
 1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
 20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
 35 40 45

Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val
 50 55 60

Leu Leu Ser Leu
 65

<210> 730
 <211> 233
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 730
 Met His Arg Gly Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser
 1 5 10 15

Tyr Leu Ile Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val
 20 25 30

Ser Ala Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly
 35 40 45

Pro Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe
 50 55 60

Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp
 65 70 75 80

Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val
 85 90 95
 Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile
 100 105 110
 Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly
 115 120 125
 Pro Ser His Leu Asp Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu
 130 135 140
 Lys Thr Ala Ala Thr Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys
 145 150 155 160
 Cys Cys Ile Gly Lys Asp Asp His Thr Arg Val Ala Xaa Ser Ser Thr
 165 170 175
 Ala Glu Leu Phe Ser Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser
 180 185 190
 Asp Ile Ala Ala Gly Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile
 195 200 205
 Arg Asn Asn Gln Asp Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala
 210 215 220
 Pro Arg Lys Leu Ile Trp Met Gln Asn
 225 230

<210> 731
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 731
 Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Val
 1 5 10 15
 Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe
 20 25 30
 Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe
 35 40 45
 Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe
 50 55 60
 Val Cys
 65

<210> 732

<211> 40
 <212> PRT
 <213> Homo sapiens

<400> 732
 Met Ser Val Tyr Val Asn Ile Met His Ile Val Ile Tyr Ile TyrLeu
 1 5 10 15
 Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ile Cys
 20 25 30
 Ile Gln Met Leu Pro Gly Leu Gln
 35 40

<210> 733
 <211> 249
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (196)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 733
 Met Val Cys Val Phe Met Cys Ile Val Gly Val Cys Val Ala Cys Cys
 1 5 10 15
 Ala Cys Val Tyr Cys Gly Cys Leu Leu Ser Arg Ala Val Glu Arg Thr
 20 25 30
 Ser Gly Lys Gln Pro Gln His Gln Gly Gln Ala Arg Ser Aa Glu Cys
 35 40 45
 Met Glu Ala Gly Gln Val Gly Ala Trp Asp Glu Gly Ser Thr Glu Met
 50 55 60
 Gln Gly Cys Gln Gly Pro Trp Asn Gln Glu Pro Met Ile Lys Ala Thr
 65 70 75 80

Val His Thr Ala Leu Glu Ala Lys Asp Ile Phe Ile Ser Gln Gly Leu
 85 90 95
 Lys Ser Met Gly Gln Gly Trp Ala Pro Gly Gln Asp Trp Gly Tyr Arg
 100 105 110
 Val Asp Gln Ser Pro Ser Leu Pro Pro Gly Ala Tyr Pro His Pro Phe
 115 120 125
 Thr Ser Gln Val Ser Pro Pro Gln Pro Leu Gly Glu Leu Leu Leu Ile
 130 135 140
 Pro Gln Xaa Val Ala Xaa Val Thr Leu Leu Pro Glu Ala Ser Pro His
 145 150 155 160
 Pro Leu Lys His Pro Leu Pro Ala Ala His Leu Gln His Ser Gln Arg
 165 170 175
 Ala Pro Trp Pro Val Ser Thr Gly Leu Ser Leu Leu Gly Gly Ala Gly
 180 185 190
 Ala Glu Gln Xaa Pro Gly Leu Gly Val Pro Ala Pro Arg Ser Thr Pro
 195 200 205
 Ser Pro Thr Ala Ser Leu Phe Asn Leu Arg Gln Ala Val Xaa Leu Leu
 210 215 220
 Ser Leu Thr Phe Pro Leu Cys Lys Met Arg Glu Gly Thr Ala Pro Ser
 225 230 235 240
 Lys Pro Ser Phe Ser Leu Lys Pro Leu
 245

<210> 734
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 734
 Met Gln Gly Ser Asp Ala Gly His Gly Gly Thr His Ile Tyr Arg Ala
 1 5 10 15
 Leu Val Gln Trp Pro Leu Ala Trp Val Phe Tyr Leu Ser His Ala Lys
 20 25 30
 Thr His Trp Gly Glu Glu Leu Arg Phe Ser Phe Arg Arg Lys Asn Leu
 35 40 45
 Arg Leu Arg Glu Ala Met Arg His Glu Thr Cys Gln Val Thr Gln Leu
 50 55 60
 Val Ala Gly Lys Ala Asp Ser Asn Leu Cys Leu Arg Asp Ser Glu Thr
 65 70 75 80
 Trp Phe Trp Pro Pro Leu Trp Ala Ala Cys Ser Ser Leu Gln Ala Thr

	85		90		95										
Ala	Cys	Arg	Leu	Ser	Ser	Pro	Ser	Lys	Gly	Leu	Gly	Ala	Ser	Arg	Glu
			100					105					110		
Cys	Pro	Trp	Leu	Ala	Ser	Gly	Arg	Ala	Ala	Leu	Val	Ser	Phe	Leu	
		115					120					125			

<210> 735
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

	<400>	735													
Met	Leu	Ile	Ala	Leu	Phe	Cys	Ile	Leu	Phe	Gln	Ile	Leu	Phe	Ser	Ile
1				5					10					15	
Pro	Thr	Arg	Ile	Phe	Tyr	Ile	Phe	Leu	Ile	Asn	Lys	Arg	Val	His	Ile
			20					25					30		
Phe	Thr	Thr	Tyr	Leu	Met	Ser	Glu	Gln	Lys	Asn	His	Asp	Trp	Val	Arg
			35				40					45			
Arg	Thr	Xaa	Lys	Leu	His	Arg	Val	Trp	Leu	Ile	Ser	Gly	Lys	Met	Leu
		50				55					60				
Leu	Val	Ala	Asp	Ile	Lys	Ala	Leu	Ile	Arg	Trp	Leu	Trp	Gly	Pro	Asn
65					70				75						80
Pro	Glu														

<210> 736
 <211> 90
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 736

Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu
1 5 10 15

Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp
20 25 30

Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr
35 40 45

Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val
50 55 60

Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr
65 70 75 80

Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln
85 90

<210> 737

<211> 36

<212> PRT

<213> Homo sapiens

<400> 737

Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys
1 5 10 15

Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe
20 25 30

Leu Val Tyr Arg
35

<210> 738

<211> 46

<212> PRT

<213> Homo sapiens

<400> 738

Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser
1 5 10 15

Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser
20 25 30

Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr
35 40 45

<210> 739
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 739
 Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile
 1 5 10 15
 Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu
 20 25 30
 Gln Gly

<210> 740
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 740
 Met Ala Ile Ser Cys Trp Ala Ser Leu Thr Val Lys Ser Leu Tyr Cys
 1 5 10 15
 Leu Leu Gly Phe Trp Trp Glu Ala Val Ile Ser Ser Asn Glu Leu Pro
 20 25 30
 Leu Pro Trp Ile Cys Gln Glu Ala Asp Gly Asn Leu Ala Asn Ser Gly
 35 40 45
 Arg Tyr Gln Ala Pro Ser Ser Ala Pro Val Thr Leu Phe Tyr Thr Cys
 50 55 60
 Gly Ser Thr Thr Val Cys Ser Glu Gly Gln Ser Leu Pro Leu Leu Cys
 65 70 75 80
 Phe Ser

<210> 741
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 741
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro

1	5	10	15
Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu	20	25	30
Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr	35	40	45
Arg Pro Ile Pro Ser Phe Leu Lys Ile	50	55	

<210> 742
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 742
Met Pro Arg Trp Leu Ser Leu Leu Ala Leu Thr Ser Leu Thr Gly Ile
1 5 10 15
Leu Ser Gly Thr Leu Gly Phe Ser Pro His Gly Trp Ser Ser Pro Arg
20 25 30
Arg His Leu Ser Pro Arg Pro Glu Cys Pro Ala Ala Ser Gln Thr Thr
35 40 45
Cys Lys Ser Leu Gly Gln His
50 55

<210> 743
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 743
Met Thr Pro Ser Leu Leu Ser Glu Lys Leu Cys Ser Leu Phe Phe Val
1 5 10 15
Leu Leu Gly Ile Ala Ser Ala Ala Phe Val Ser Ala Leu Trp Ala Trp
20 25 30
Ser Ser His Thr Glu Arg Leu Thr Ala Glu Pro Ser Ser Ser Ile Thr
35 40 45
Cys Leu Ser Pro Pro Trp Phe Phe Phe Pro Phe
50 55

<210> 744
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 744

Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln
1 5 10 15

Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro
20 25 30

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met
35 40 45

Arg Val Cys Ala Arg Val
50

<210> 745

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<400> 745

Met Arg Met Arg Val Ala Val Ala Pro Arg Pro His Gln His Leu Val
1 5 10 15

Val Ser Val Ser Trp Ile Leu Ala Ile Leu Ile Ser Val Ser Gly Tyr
20 25 30

His Cys Phe His Leu Gln Phe Ser Tyr Met Val Xaa Asn Ile Phe Pro
35 40 45

His Val Tyr Leu Ser Ser Ala Tyr Leu Leu Arg Pro Val Ile Cys Ser
50 55 60

Asp Leu Leu Pro Val Phe Val Cys Leu His Val Cys Leu Cys Leu Ile
65 70 75 80

Phe

<210> 746

<211> 80

<212> PRT

<213> Homo sapiens

<400> 746

Met Cys Val Val Cys Val Cys Val Trp Cys Met Cys Val Cys Gly Val
1 5 10 15

Cys Val Cys Leu Cys Val Cys Gly Val Cys Met Cys Ile Ser Leu Asn

	20		25		30										
Glu	Lys	Leu	Ala	Pro	Met	Ile	Met	Glu	Leu	Thr	Thr	Pro	Lys	Val	Cys
		35					40					45			
Arg	Gln	Gln	Ala	Gly	Gly	Pro	Gly	Gly	Pro	Val	Val	Trp	Leu	Gln	Pro
	50					55					60				
Val	Ser	Glu	Gly	Leu	Arg	Thr	Arg	Arg	Ala	Gly	Gly	Ala	Ala	Ala	Val
65					70					75					80

<210> 747
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 747

Met	Tyr	Ser	Cys	Leu	Leu	Leu	Pro	Asp	Leu	Leu	Tyr	Leu	Thr	Leu	Ser
1				5					10					15	
Pro	Leu	Val	Val	Ala	Met	Leu	Leu	Thr	Pro	His	Phe	Asn	Val	Ala	Asn
			20					25					30		
Pro	Gln	Asn	Leu	Leu	Ala	Gly	Leu	Trp	Leu	Glu	Asn	Glu	His	Ser	Phe
		35					40					45			
Thr	Leu	Met	Ala	Pro	Glu	Arg	Ala	Arg	Thr	His	His	Cys	Gln	Pro	Glu
	50					55					60				
Glu	Arg	Lys	Val	Leu	Phe	Cys	Leu	Phe	Pro	Ile	Val	Pro	Asn	Ser	Gln
65					70					75					80
Ala	Gln	Val	Gln	Pro	Pro	Gln	Met	Pro	Pro	Phe	Cys	Cys	Ala	Ala	Ala
				85					90					95	
Lys	Glu	Lys	Thr	Gln	Glu	Glu	Gln	Leu	Gln	Glu	Pro	Leu	Gly	Ser	Gln
			100					105					110		
Cys	Pro	Asp	Thr	Cys	Pro	Asn	Ser	Leu	Cys	Pro	Ser	His	Thr	Gln	Leu
		115					120					125			
Thr	Lys	Ala	Asn	Thr	Leu	Ser	Leu	Phe	Phe	Phe	Phe	Ser	Phe	Phe	Leu
	130					135						140			
Ser	Arg	Val	Ser	Leu	Leu	Ser	Pro	Arg	Leu	Glu	Cys	Asn	Gly	Arg	Ile
145					150					155					160
Leu	Ala	His	Cys	Asn	Leu	His	Leu	Pro	Gly	Ser	Ser	Asn	Ser	Pro	Val
				165					170					175	
Ser	Ala	Ser	Arg												
			180												

<210> 748
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 748
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser
 1 5 10 15
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys
 20 25 30
 Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile
 35 40 45
 Asn Arg Thr Ala Asn
 50

<210> 749
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 749
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1 5 10 15
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
 20 25 30
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Gl
 35 40 45
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
 50 55 60
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
 65 70 75 80

<210> 750
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 750
 Met Ala Val Ser Leu Leu Phe Trp Met Leu Leu Gly Ala Val Pro Ile
 1 5 10 15

Ala Gln Gly His Pro Glu Ile Gln Leu Leu Glu Ser Glu Ser Cys Gly
20 25 30
His Ser Ala Glu Gly Pro Trp Arg Gly Gly Leu Arg Cys Pro Leu Gln
35 40 45
Pro Gly Leu
50

<210> 751
<211> 320
<212> PRT
<213> Homo sapiens

<400> 751
Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
1 5 10 15
Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe AlaAla Pro Phe Gly
20 25 30
Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
35 40 45
Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro ProTyr
50 55 60
Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
65 70 75 80
Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
85 90 95
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser
100 105 110
Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp
115 120 125
Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn
130 135 140
Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp
145 150 155 160
Cys Pro Ser Met Gln Glu Gln His Ser Ile Asp Asp Glu Tyr Ala Pro
165 170 175
Ala Val Phe Gln Leu Asp Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly
180 185 190
Phe Ala Gln Trp Arg Pro Val Ala Tyr Ser Gln Lys Pro Gly Gly Arg
195 200 205

Glu Ser Ala Leu Pro Cys Gln Ala Ser Pro Leu His Pro Ala Leu Ala
 210 215 220
 Tyr Ser Leu Pro Gln Ser Pro Ile Val Arg Ala Phe Phe Gly Ser Gln
 225 230 235 240
 Asn Asn Phe Cys Ala Phe Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro
 245 250 255
 Gly Tyr Trp Asp Gln His Tyr Leu Ser Trp Ser Met Leu Leu Gly Val
 260 265 270
 Gly Phe Pro Pro Val Asp Gly Leu Ser Pro Leu Val Leu Gly Ile Met
 275 280 285
 Ala Val Ala Leu Gly Ala Pro Gly Leu Met Leu Leu Gly Gly Gly Leu
 290 295 300
 Val Leu Leu Leu His His Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn
 305 310 315 320

<210> 752
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 752
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr
 1 5 10 15
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn CysPhe Asn Met
 20 25 30
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg
 35 40 45
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys
 50 55 60
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr
 65 70 75 80
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu
 85 90 95
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln
 100 105 110
 Arg Pro Ser
 115

<210> 753
 <211> 402
 <212> PRT
 <213> Homo sapiens

<400> 753

Met	Tyr	Ser	Gly	Asn	Arg	Ser	Gly	Gly	His	Gly	Tyr	Trp	Asp	Gly	Gly	1	5	10	15
Gly	Ala	Ala	Gly	Ala	Glu	Gly	Pro	Ala	Pro	Ala	Gly	Thr	Leu	Ser	Pro	20	25	30	
Ala	Pro	Leu	Phe	Ser	Pro	Gly	Thr	Tyr	Glu	Arg	Leu	Ala	Leu	Leu	Leu	35	40	45	
Gly	Ser	Ile	Gly	Leu	Leu	Gly	Val	Gly	Asn	Asn	Leu	Leu	Val	Leu	Val	50	55	60	
Leu	Tyr	Tyr	Lys	Phe	Gln	Arg	Leu	Arg	Thr	Pro	Thr	His	Leu	Leu	Leu	65	70	75	80
Val	Asn	Ile	Ser	Leu	Ser	Asp	Leu	Leu	Val	Ser	Leu	Phe	Gly	Val	Thr	85	90	95	
Phe	Thr	Phe	Val	Ser	Cys	Leu	Arg	Asn	Gly	Trp	Val	Trp	Asp	Thr	Val	100	105	110	
Gly	Cys	Val	Trp	Asp	Gly	Phe	Ser	Gly	Ser	Leu	Phe	Gly	Ile	Val	Ser	115	120	125	
Ile	Ala	Thr	Leu	Thr	Val	Leu	Ala	Tyr	Glu	Arg	Tyr	Ile	Arg	Val	Val	130	135	140	
His	Ala	Arg	Val	Ile	Asn	Phe	Ser	Trp	Ala	Trp	Arg	Ala	Ile	Thr	Tyr	145	150	155	160
Ile	Trp	Leu	Tyr	Ser	Leu	Ala	Trp	Ala	Gly	Ala	Pro	Leu	Leu	Gly	Trp	165	170	175	
Asn	Arg	Tyr	Ile	Leu	Asp	Val	His	Gly	Leu	Gly	Cys	Thr	Val	Asp	Trp	180	185	190	
Lys	Ser	Lys	Asp	Ala	Asn	Asp	Ser	Ser	Phe	Val	Leu	Phe	Leu	Phe	Leu	195	200	205	
Gly	Cys	Leu	Val	Val	Pro	Leu	Gly	Val	Ile	Ala	His	Cys	Tyr	Gly	His	210	215	220	
Ile	Leu	Tyr	Ser	Ile	Arg	Met	Leu	Arg	Cys	Val	Glu	Asp	Leu	Gln	Thr	225	230	235	240
Ile	Gln	Val	Ile	Lys	Ile	Leu	Lys	Tyr	Glu	Lys	Lys	Leu	Ala	Lys	Met	245	250	255	
Cys	Phe	Leu	Met	Ile	Phe	Thr	Phe	Leu	Val	Cys	Trp	Met	Pro	Tyr	Ile	260	265	270	

Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser An Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 305 310 315 320
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Aa Lys
 325 330 335
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 340 345 350
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn &r
 355 360 365
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp
 370 375 380
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg
 385 390 395 400
 Pro Leu

<210> 754
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 754
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu
 35 40 45
 Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala
 50 55 60
 Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp
 65 70 75

<210> 755
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 755

Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu
1 5 10 15

Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser
20 25 30

Ser Ser Ser Glu Ser Lys Ser Ser Leu
35 40

<210> 756

<211> 35

<212> PRT

<213> Homo sapiens

<400> 756

Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr
1 5 10 15

Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe
20 25 30

Tyr Ile Arg
35

<210> 757

<211> 159

<212> PRT

<213> Homo sapiens

<400> 757

Gly Thr Arg Leu Pro Thr Asn Val Arg Gly Ile Met Val Trp Phe Ser
1 5 10 15

Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile Leu Gly Ala Arg Gly
20 25 30

Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg His Cys Gly Leu Val
35 40 45

Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala Asp Val Leu Ala Val
50 55 60

His Ser Gly Gln Val Ser His Ser Pro Glu Pro Gln Arg Leu Tyr Gln
65 70 75 80

Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro His Gly Val Val Ser
85 90 95

Ala Val Asn Glu Ile Met Tyr Met Lys His Leu Val Tyr Leu Ala Pro
100 105 110

Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr Asn Lys Met Glu Leu
115 120 125

Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg Gln Ile Leu Gly Val
130 135 140

Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro Ser Leu Phe Gly
145 150 155

<210> 758
<211> 59
<212> PRT
<213> Homo sapiens

<400> 758
Met Leu Gln Gln Lys Thr Gln Phe Tyr Ser Ile Leu Trp Leu Cys Ser
1 5 10 15

Ile Pro Trp Cys Val Cys Thr Thr Phe Ser Leu Tyr Ser Pro Pro Leu
20 25 30

Met Gly Thr Arg Val Asp Phe Met Ser Leu Asn Met Cys Cys Asn Glu
35 40 45

Lys Lys His Ile Phe Tyr Lys Met Ile Glu Val
50 55

<210> 759
<211> 226
<212> PRT
<213> Homo sapiens

<400> 759
Met Glu Thr Val Val Ile Val Ala Ile Gly Val Leu Ala Thr Ile Phe
1 5 10 15

Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg Tyr Cys
20 25 30

Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp
35 40 45

Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu
50 55 60

Asp Asp Val Val Ile Thr Asn Pro His Ile Glu Ala Ile Leu Glu Asn
65 70 75 80

Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu Met Ser His Cys Ile Ala
85 90 95

Ile Leu Lys Ile Cys His Thr Leu Thr Glu Lys Leu Val Ala Met Thr
100 105 110

Met Gly Ser Gly Ala Lys Met Lys Thr Ser Ala Ser Val Ser Asp Ile
 115 120 125
 Ile Val Val Ala Lys Arg Ile Ser Pro Arg Val Asp Asp Val Val Lys
 130 135 140
 Ser Met Tyr Pro Pro Leu Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr
 145 150 155 160
 Ala Leu Leu Leu Ser Val Ser His Leu Val Leu Val Thr Arg Asn Ala
 165 170 175
 Cys His Leu Thr Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala
 180 185 190
 Ala Glu Glu His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu
 195 200 205
 Pro Asp Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser
 210 215 220
 Ala Ile
 225

<210> 760
 <211> 484
 <212> PRT
 <213> Homo sapiens

<400> 760
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg
 35 40 45
 Arg Pro Val Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125

Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu
130 135 140
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
145 150 155 160
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
165 170 175
Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val
180 185 190
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
195 200 205
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp
210 215 220
Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val
225 230 235 240
Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe
245 250 255
Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg
260 265 270
Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu
275 280 285
Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
290 295 300
Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
305 310 315 320
Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
325 330 335
Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
340 345 350
Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
355 360 365
His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
370 375 380
Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
385 390 395 400
His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
405 410 415
Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
420 425 430

Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala
 435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 761
 <211> 410
 <212> PRT
 <213> Homo sapiens

<400> 761
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val
 20 25 30
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala
 35 40 45
 Arg Gly Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly
 50 55 60
 Gly Pro Val Pro Glu Val Leu Arg Asn Tyr Met Asp Ala Gln Tyr Tyr
 65 70 75 80
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
 85 90 95
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
 100 105 110
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Gly Lys Ser
 115 120 125
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
 130 135 140
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
 145 150 155 160
 Lys Ser Gly Leu Ser Ser Leu Ala Gly Val Lys Val Glu Arg Gln Thr
 165 170 175
 Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala Ala Lys
 180 185 190
 Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val Asn Asn

195					200					205					
Val	Leu	Pro	Val	Phe	Asp	Asn	Leu	Met	Gln	Gln	Lys	Leu	Val	Glu	Lys
	210					215					220				
Asn	Ile	Phe	Ser	Phe	Tyr	Leu	Asn	Arg	Asp	Pro	Gly	Ala	Gln	Pro	Gly
225					230					235					240
Gly	Glu	Leu	Met	Leu	Gly	Gly	Thr	Asp	Ser	Lys	Tyr	Tyr	Lys	Gly	Pro
				245					250					255	
Leu	Ser	Tyr	Leu	Asn	Val	Thr	Arg	Lys	Ala	Tyr	Trp	Gln	Val	His	Met
			260					265					270		
Glu	Gln	Val	Asp	Val	Gly	Ser	Ser	Leu	Thr	Leu	Cys	Lys	Gly	Gly	Cys
		275					280					285			
Glu	Ala	Ile	Val	Asp	Thr	Gly	Thr	Ser	Leu	Ile	Val	Gly	Pro	Val	Asp
	290					295					300				
Glu	Val	Arg	Glu	Leu	Gln	Lys	Ala	Ile	Gly	Ala	Val	Pro	Leu	Ile	Gln
305					310					315					320
Gly	Glu	Tyr	Met	Ile	Pro	Cys	Glu	Lys	Val	Ser	Thr	Leu	Pro	Glu	Val
				325					330					335	
Thr	Leu	Thr	Leu	Gly	Gly	Lys	Pro	Tyr	Lys	Leu	Ser	Ser	Glu	Asp	Tyr
			340					345					350		
Thr	Leu	Lys	Val	Ser	Gln	Gly	Gly	Lys	Ser	Ile	Cys	Leu	Ser	Gly	Phe
		355					360					365			
Met	Gly	Met	Asp	Ile	Pro	Pro	Pro	Gly	Gly	Pro	Leu	Trp	Ile	Leu	Gly
	370					375					380				
Asp	Val	Phe	Ile	Gly	Arg	Tyr	Tyr	Thr	Val	Phe	Asp	Arg	Asp	Gln	Asn
385					390					395					400
Arg	Val	Gly	Leu	Ala	Glu	Ala	Thr	Arg	Leu						
				405					410						

<210> 762
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 762
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
 1 5 10 15
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr
 20 25 30
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu
 35 40 45

Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His
50 55 60

Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser
65 70 75 80

Leu Ile

<210> 763
<211> 129
<212> PRT
<213> Homo sapiens

<400> 763
Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala
1 5 10 15

Ala Ala Arg Ala Gly Pro Tyr Phe Arg Pro Gly Arg Gly Cys Arg Leu
20 25 30

Pro Leu Arg Gly Asp Gln Leu Ser Gly Leu Gly Arg Arg Thr Tyr Pro
35 40 45

Arg Pro His Glu Tyr Leu Ser Pro Ser Asp Leu Pro Lys Ser Trp Asp
50 55 60

Trp Arg Asn Val Asn Gly Val Asn Tyr Ala Ser Ala Thr Arg Asn Gln
65 70 75 80

His Ile Pro Gln Tyr Cys Gly Ser Cys Trp Ala His Gly Ser Thr Ser
85 90 95

Ala Met Ala Gly Pro Asp Gln His Gln Glu Lys Gly Gly Val Ala Leu
100 105 110

His Pro Ala Val Arg Ala Ala Arg Pro Arg Leu Arg Gln Arg Gly Leu
115 120 125

Leu

<210> 764
<211> 55
<212> PRT
<213> Homo sapiens

<400> 764
Met Arg Glu Lys Thr Gly Ala Leu Pro Arg Cys Leu Gly Leu Leu Gly
1 5 10 15

Val Gly Leu Leu Trp Arg Trp Cys Gly Arg Arg Ala Arg Ala Gly Val

	20		25		30										
Gly	Lys	Ala	Trp	Ser	Ala	Thr	Arg	Ser	Pro	Ser	Asp	Ser	Cys	Phe	Pro
	35						40					45			
Gly	Val	Ala	Arg	Val	Gly	Ile									
	50					55									

<210> 765
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 765
Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu Ala Ser Ser Leu
1 5 10 15
Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu
20 25 30
Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala Glu Ser Glu
35 40 45
Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala Ala Leu Cys His
50 55 60
Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu
65 70 75 80
Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp Val Cys
85 90 95
Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys
100 105 110
Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr
115 120 125
Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys
130 135 140
Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly
145 150 155 160
Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys
165 170 175
Phe Cys Glu Cys Asp Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu
180 185 190
Ile Cys Gly Gly His Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys
195 200 205
Ala Gly Trp His Gly Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro
210 215 220

Trp Glu Ser Lys Arg Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser
 225 230 235 240
 Asn Arg Gly Thr Cys Val Cys Gly Glu Cys Thr Cys His Asp Val Asp
 245 250 255
 Pro Thr Gly Asp Trp Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp
 260 265 270
 Glu Arg Asp Cys Arg Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys
 275 280 285
 Ser Gly His Gly Gln Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly
 290 295 300
 Trp Tyr Gly Lys Lys Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala
 305 310 315 320
 Glu Glu Ser Ile Arg Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser
 325 330 335
 Gly Arg Gly Lys Cys Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly
 340 345 350
 Asp Arg Arg Val Tyr Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys
 355 360 365
 Glu Asp Leu Asp Gly Val Val Cys Gly Gly His Gly Thr Cys Ser Cys
 370 375 380
 Gly Arg Cys Val Cys Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His
 385 390 395 400
 Pro Arg Lys Cys Asn Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu
 405 410 415
 Ser Ala Asp Gly Ile Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly
 420 425 430
 Lys Cys Ile Cys Ser Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys
 435 440 445
 Asp Cys Asp Asp Arg Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr
 450 455 460
 Gly Asn Gly Ile Cys Ser Cys Gly Asn Cys Glu Cys Trp Asp Gly Trp
 465 470 475 480
 Asn Gly Asn Ala Cys Glu Ile Trp Leu Gly Ser Glu Tyr Pro
 485 490

<210> 766
 <211> 164
 <212> PRT

<213> Homo sapiens

<400> 766

```
Met Thr Thr Trp Ser Cys Leu Val Ala Met IleVal Ser Gly Val Ile
  1           5           10           15

Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val
      20           25           30

Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn CysArg Pro Pro Arg
      35           40           45

Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val
      50           55           60

Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys
      65           70           75           80

Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly
      85           90           95

Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg
      100          105          110

Glu Asn His Arg Pro Lys Lys Pro Lys Ser Cys Thr Arg Leu Pro Gly
      115          120          125

Leu Pro Lys Leu Glu Pro Ser Ser Thr Leu Lys Gly Gln Asp Ser Trp
      130          135          140

Gln Met Gly His Gln Gln Asp Lys Thr Leu Trp Ser Trp Ala Ser Thr
      145          150          155          160

Gly Gly Ser Ser
```

<210> 767

<211> 56

<212> PRT

<213> Homo sapiens

<400> 767

```
Met Pro Leu Glu Glu Ser Phe Glu Ile Val Leu Lys Leu Val Pro Leu
  1           5           10           15

Leu Gly Leu Glu Leu Phe Phe Phe Leu Phe Ile Ile Asn Gly Tyr Ile
      20           25           30

Asn Val Tyr Cys Pro Ser Gln Tyr Phe Ile Tyr Ala Lys Asp Ser Leu
      35           40           45

Ala Gly Leu Ala Leu Ile Pro Gln
      50           55
```

<210> 768
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 768
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
 1 5 10 15
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
 20 25 30
 Val Ser Gln Lys Arg Gly His Ile
 35 40

<210> 769
 <211> 624
 <212> PRT
 <213> Homo sapiens

<400> 769
 Met Glu Ile Pro Gly Ser Leu Cys Lys Lys Val Lys Leu Ser Asn Asn
 1 5 10 15
 Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val Thr Tyr Gln Ala
 20 25 30
 His His Val Ser Arg Asn Lys Arg Gly Gln Val Val Gly Thr Arg Gly
 35 40 45
 Gly Phe Arg Gly Cys Thr Val Trp Leu Thr Gly Leu Ser Gly Ala Gly
 50 55 60
 Lys Thr Thr Val Ser Met Ala Leu Glu Glu Tyr Leu Val Cys His Gly
 65 70 75 80
 Ile Pro Cys Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn
 85 90 95
 Lys Asn Leu Gly Phe Ser Pro Glu Asp Arg Glu Glu Asn Val Arg Arg
 100 105 110
 Ile Ala Glu Val Ala Lys Leu Phe Ala Asp Ala Gly Leu Val Cys Ile
 115 120 125
 Thr Ser Phe Ile Ser Pro Tyr Thr Gln Asp Arg Asn Asn Ala Arg Gln
 130 135 140
 Ile His Glu Gly Ala Ser Leu Pro PhePhe Glu Val Phe Val Asp Ala
 145 150 155 160
 Pro Leu His Val Cys Glu Gln Arg Asp Val Lys Gly Leu Tyr Lys Lys
 165 170 175

Ala Arg Ala Gly Glu Ile Lys Gly Phe Thr Gly Ile Asp Ser Glu Tyr
 180 185 190
 Glu Lys Pro Glu Ala Pro Glu Leu Val Leu Lys Thr Asp Ser Cys Asp
 195 200 205
 Val Asn Asp Cys Val Gln Gln Val Val Glu Leu Leu Gln Glu Arg Asp
 210 215 220
 Ile Val Pro Val Asp Ala Ser Tyr Glu Val Lys Glu Leu Tyr Val Pro
 225 230 235 240
 Glu Asn Lys Leu His Leu Ala Lys Thr Asp Ala Glu Thr Leu Pro Ala
 245 250 255
 Leu Lys Ile Asn Lys Val Asp Met Gln Trp Val Gln Val Leu Ala Glu
 260 265 270
 Gly Trp Ala Thr Pro Leu Asn Gly Phe Met Arg Glu Arg Glu Tyr Leu
 275 280 285
 Gln Cys Leu His Phe Asp Cys Leu Leu Asp Gly Gly Val Ile Asn Leu
 290 295 300
 Ser Val Pro Ile Val Leu Thr Ala Thr His Glu Asp Lys Glu Arg Leu
 305 310 315 320
 Asp Gly Cys Thr Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val Ala
 325 330 335
 Ile Leu Arg Asn Pro Glu Phe Phe Glu His Arg Lys Glu Glu Arg Cys
 340 345 350
 Ala Arg Gln Trp Gly Thr Thr Cys Lys Asn His Pro Tyr Ile Lys Met
 355 360 365
 Val Met Glu Gln Gly Asp Trp Leu Ile Gly Gly Asp Leu Gln Val Leu
 370 375 380
 Asp Arg Val Tyr Trp Asn Asp Gly Leu Asp Gln Tyr Arg Leu Thr Pro
 385 390 395 400
 Thr Glu Leu Lys Gln Lys Phe Lys Asp Met Asn Ala Asp Ala Val Phe
 405 410 415
 Ala Phe Gln Leu Arg Asn Pro Val His Asn Gly His Ala Leu Leu Met
 420 425 430
 Gln Asp Thr His Lys Gln Leu Leu Glu Arg Gly Tyr Arg Arg Pro Val
 435 440 445
 Leu Leu Leu His Pro Leu Gly Gly Trp Thr Lys Asp Asp Asp Val Pro
 450 455 460
 Leu Met Trp Arg Met Lys Gln His Ala Ala Val Leu Glu Glu Gly Val
 465 470 475 480

Leu Asn Pro Glu Thr Thr Val Val Ala Ile Phe Pro Ser Pro Met Met
 485 490 495
 Tyr Ala Gly Pro Thr Glu Val Gln Trp His Cys Arg Ala Arg Met Val
 500 505 510
 Ala Gly Ala Asn Phe Tyr Ile Val Gly Arg Asp Pro Ala Gly Met Pro
 515 520 525
 His Pro Glu Thr Gly Lys Asp Leu Tyr Glu Pro Ser His Gly Ala Lys
 530 535 540
 Val Leu Thr Met Ala Pro Gly Leu Ile Thr Leu Glu Ile Val Pro Phe
 545 550 555 560
 Arg Val Ala Ala Tyr Asn Lys Lys Lys Lys Arg Met Asp Tyr Tyr Asp
 565 570 575
 Ser Glu His His Glu Asp Phe Glu Phe Ile Ser Gly Thr Arg Met Arg
 580 585 590
 Lys Leu Ala Arg Glu Gly Gln Lys Pro Pro Glu Gly Phe Met Ala Pro
 595 600 605
 Lys Ala Trp Thr Val Leu Thr Glu Tyr Tyr Lys Ser Leu Glu Lys Ala
 610 615 620

<210> 770
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 770
 Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
 1 5 10 15
 Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
 20 25 30
 Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
 35 40 45
 Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
 50 55 60
 Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
 65 70 75 80
 Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
 85 90 95
 Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His

100 105 110
 Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
 115 120 125
 Tyr Ile His
 130

<210> 771
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 771
 Met Cys Val Cys Leu Ile Cys Ser Ile Cys Gln Phe Leu Trp Cys Lys
 1 5 10 15
 Tyr Ser His Tyr Ser Cys Phe Gln Ala Asn Ile Val Ile Pro Gln Lys
 20 25 30
 Met Glu Leu Gly Arg His Asn Gln Asp
 35 40

<210> 772
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 772
 Met Pro Phe Ile Leu Leu Leu Val Cys Leu Thr Ser Leu Pro Ser Arg
 1 5 10 15
 Gly Tyr Asn Glu Lys Lys Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe
 20 25 30
 Gln Val Leu Tyr Glu Glu Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val
 35 40 45
 His Gln Leu Pro Ser Asn Lys Pro Glu Glu Leu Glu Asn Asn Val Asp
 50 55 60
 Gln Ile Leu Lys Trp Ile Glu Gln Trp Ile Lys Asp His Asn Ser
 65 70 75

<210> 773
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 773
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys

1	5	10	15
Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr	20	25	30
Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp	35	40	45
Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys	50	55	60
Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu	65	70	75
Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Asp Ala Gly Arg	85	90	95
Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu	100	105	110
Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp	115	120	125
Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe	130	135	140
Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu	145	150	155
Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr	165	170	175
Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu	180	185	190
Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr	195	200	205
Leu Lys Val	210		

<210> 774
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 774
Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu
1 5 10 15
Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu
20 25 30
Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn
35 40 45

Glu Ala Gly
50

<210> 775

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring amino acids

<400> 775

Met Ser His His Ala Gly Leu Gly Gly Gly Ile Leu Phe Ser Leu Lys
1 5 10 15

Ile Ser Phe Phe Ile Ala Leu Ala Val Val Gly Gly Ser Arg Gly Val
20 25 30

Asn Asp Cys Gln Leu Gly Gly Cys Arg Val Gly Ser Cys Pro Arg Val
35 40 45

Xaa Val Arg Val Ala
50

<210> 776

<211> 48

<212> PRT

<213> Homo sapiens

<400> 776

Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile IleGly Val
1 5 10 15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu LeuLys
35 40 45

<210> 777

<211> 201

<212> PRT

<213> Homo sapiens

<400> 777

Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
 1 5 10 15
 Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser
 20 25 30
 Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His
 35 40 45
 Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
 50 55 60
 Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
 65 70 75 80
 Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
 85 90 95
 Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
 100 105 110
 Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
 115 120 125
 Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
 130 135 140
 Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
 145 150 155 160
 Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
 165 170 175
 Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg
 180 185 190
 Thr Phe Leu His Thr Val Cys Phe Tyr
 195 200

<210> 778
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 778
 Met Ser Tyr Ser Leu Phe Leu Ala Leu Leu Ser Phe Ala Ser Ala Ile
 1 5 10 15
 Leu Phe Val Ala Gly Thr Ile Ala Gly Thr Gly Gly Leu Ser Phe His
 20 25 30
 Gly Ile Ala Thr Ile Phe Val Leu Thr Gly Lys Trp
 35 40

<210> 779
 <211> 420
 <212> PRT
 <213> Homo sapiens

<400> 779
 Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1 5 10 15
 Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
 20 25 30
 Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
 35 40 45
 Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
 50 55 60
 Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
 65 70 75 80
 Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
 85 90 95
 Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
 100 105 110
 Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
 115 120 125
 Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
 130 135 140
 Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
 145 150 155 160
 Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
 165 170 175
 Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
 180 185 190
 Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
 195 200 205
 Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
 210 215 220
 Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
 225 230 235 240
 Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala As Cys
 245 250 255
 Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg
 260 265 270

Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg
 275 280 285
 Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu
 290 295 300
 Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln
 305 310 315 320
 Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr
 325 330 335
 Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Glu Ser Ala
 340 345 350
 Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln
 355 360 365
 Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys
 370 375 380
 Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met
 385 390 395 400
 Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe
 405 410 415
 Ile Lys Gly Arg
 420

<210> 780
 <211> 387
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (228)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (359)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 780
 Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His
 1 5 10 15
 Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met En Gly Trp
 20 25 30
 Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His
 35 40 45

Gly	Leu	Glu	Asp	Trp	Ser	Phe	Phe	Ala	Val	Tyr	Asp	Gly	His	Ala	Gly	
	50					55					60					
Ser	Arg	Val	Ala	Asn	Tyr	Cys	Ser	Thr	His	Leu	Leu	Glu	His	Ile	Thr	
65					70					75					80	
Thr	Asn	Glu	Asp	Phe	Arg	Ala	Ala	Gly	Lys	Ser	Gly	Ser	Ala	Leu	Glu	
				85					90					95		
Leu	Ser	Val	Glu	Asn	Val	Lys	Asn	Gly	Ile	Arg	Thr	Gly	Phe	Leu	Lys	
			100					105					110			
Ile	Asp	Glu	Tyr	Met	Arg	Asn	Phe	Ser	Asp	Leu	Arg	Asn	Gly	Met	Asp	
		115					120					125				
Arg	Ser	Gly	Ser	Thr	Ala	Val	Gly	Val	Met	Ile	Ser	Pro	Lys	His	Ile	
	130					135					140					
Tyr	Phe	Ile	Asn	Cys	Gly	Asp	Ser	Arg	Ala	Val	Leu	Tyr	Arg	Asn	Gly	
145					150					155					160	
Gln	Val	Cys	Phe	Ser	Thr	Gln	Asp	His	Lys	Pro	Cys	Asn	Pro	Arg	Glu	
				165					170					175		
Lys	Glu	Arg	Ile	Gln	Asn	Ala	Gly	Gly	Ser	Val	Met	Ile	Gln	Arg	Val	
			180					185					190			
Asn	Gly	Ser	Leu	Ala	Val	Ser	Arg	Ala	Leu	Gly	Asp	Tyr	Asp	Tyr	Lys	
		195					200					205				
Cys	Val	Asp	Gly	Lys	Gly	Pro	Thr	Glu	Gln	Leu	Val	Ser	Pro	Glu	Pro	
	210					215					220					
Glu	Val	Tyr	Xaa	Ile	Leu	Arg	Ala	Glu	Glu	Asp	Glu	Phe	Ile	Ile	Leu	
225					230					235					240	
Ala	Cys	Asp	Gly	Ile	Trp	Asp	Val	Met	Ser	Asn	Glu	Glu	Leu	Cys	Glu	
				245					250					255		
Tyr	Val	Lys	Ser	Arg	Leu	Glu	Val	Ser	Asp	Asp	Leu	Glu	Asn	Val	Cys	
			260					265					270			
Asn	Trp	Val	Val	Asp	Thr	Cys	Leu	His	Lys	Gly	Ser	Arg	Asp	Asn	Met	
		275					280					285				
Ser	Ile	Val	Leu	Val	Cys	Phe	Ser	Asn	Ala	Pro	Lys	Val	Ser	Asp	Glu	
	290					295					300					
Ala	Val	Lys	Lys	Asp	Ser	Glu	Leu	Asp	Lys	His	Leu	Glu	Ser	Arg	Val	
305					310					315					320	
Glu	Glu	Ile	Met	Glu	Lys	Ser	Gly	Glu	Glu	Gly	Met	Pro	Asp	Leu	Ala	
				325					330					335		
His	Val	Met	Arg	Ile	Leu	Ser	Ala	Glu	Asn	Ile	Pro	Asn	Leu	Pro	Pro	
			340					345					350			

Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser
355 360 365

Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu
370 375 380

Asp Pro Trp
385

<210> 781
<211> 49
<212> PRT
<213> Homo sapiens

<400> 781
Met Gly Val Gly Val Leu Arg Ile Leu Leu Ser Cys Leu Gly Glu Ala
1 5 10 15

Ala Pro Lys Ser Ala Gly Thr Ser Leu Glu Ser Ala Lys Glu Cys Trp
20 25 30

Ser Ala Ala Thr Leu Leu Val Leu Cys Val Leu Cys Gln Leu Gln His
35 40 45

Gly

<210> 782
<211> 47
<212> PRT
<213> Homo sapiens

<400> 782
Met Ile Asn Glu Trp Cys Phe Lys Leu Leu Ser Leu Trp Ser Phe Ala
1 5 10 15

Tyr Ser Asn Cys Lys Leu Ile His Lys Cys Lys Phe Val Phe Leu Lys
20 25 30

Lys Lys Lys Thr Gly Lys Glu Val Ser Val Lys Gly Ser Lys Leu
35 40 45

<210> 783
<211> 159
<212> PRT
<213> Homo sapiens

<400> 783
Met Leu Leu Leu Leu Ile Phe Trp Ile Ala Pro Ala His Gly Pro Thr
1 5 10 15

Asn Ile Met Val Tyr Ile Ser Ile Cys Ser Leu Leu Gly Ser Phe Thr
 20 25 30
 Val Pro Ser Thr Lys Gly Ile Gly Leu Ala Ala Gln Asp Ile Leu His
 35 40 45
 Asn Asn Pro Ser Ser Gln Arg Ala Leu Cys Leu Cys Leu Val Leu Leu
 50 55 60
 Ala Val Leu Gly Cys Ser Ile Ile Val Gln Phe Arg Tyr Ile Asn Lys
 65 70 75 80
 Ala Leu Glu Cys Phe Asp Ser Ser Val Phe Gly Ala Ile Tyr Tyr Val
 85 90 95
 Val Phe Thr Thr Leu Val Leu Leu Ala Ser Ala Ile Leu Phe Arg Glu
 100 105 110
 Trp Ser Asn Val Gly Leu Val Asp Phe Leu Gly Met Ala Cys Gly Phe
 115 120 125
 Thr Thr Val Ser Val Gly Ile Val Leu Ile Gln Val Phe Lys Glu Phe
 130 135 140
 Asn Phe Asn Leu Gly Glu Met Asn Lys Ser Asn Met Lys Thr Asp
 145 150 155

<210> 784
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 784
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
 1 5 10 15
 Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
 20 25 30
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
 35 40 45
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Arg Leu Leu Gly Gln
 50 55 60
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
 65 70 75 80
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
 85 90 95
 Leu Ala Arg Trp Met Val
 100

<210> 785
 <211> 53
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 785
 Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
 35 40 45
 Arg Arg Ser His Cys
 50

 <210> 786
 <211> 472
 <212> PRT
 <213> Homo sapiens

 <400> 786
 Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser
 1 5 10 15
 Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr
 20 25 30
 Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys
 35 40 45
 Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr
 50 55 60
 Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly
 65 70 75 80
 Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Leu
 85 90 95
 Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His
 100 105 110
 Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His
 115 120 125

Lys Ile Ala Ile Leu Gly Leu Gly Ser Ser Ile Gly Thr Pro Pro Glu
 130 135 140
 Gly Ile Thr Ala Glu Val Leu Val Val Thr Ser Phe Asp Glu Leu Gln
 145 150 155 160
 Arg Arg Ala Ser Glu Ala Arg Gly Lys Ile Val Val Tyr Asn Gln Pro
 165 170 175
 Tyr Ile Asn Tyr Ser Arg Thr Val Gln Tyr Arg Thr Gln Gly Ala Val
 180 185 190
 Glu Ala Ala Lys Val Gly Ala Leu Ala Ser Leu Ile Arg Ser Val Ala
 195 200 205
 Ser Phe Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp
 210 215 220
 Gly Val Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu
 225 230 235 240
 Met Met Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu
 245 250 255
 Lys Met Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val
 260 265 270
 Ala Glu Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser
 275 280 285
 Gly His Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly
 290 295 300
 Gly Gly Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu
 305 310 315 320
 Gly Leu Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu
 325 330 335
 Glu Gln Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val
 340 345 350
 Asn Ile Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala Gly Thr Phe
 355 360 365
 Leu Pro Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ile
 370 375 380
 Met Glu Glu Val Met Ser Leu Leu Gln Pro Leu Asn Ile Thr Gln Val
 385 390 395 400
 Leu Ser His Gly Glu Gly Thr Asp Ile Asn Phe Trp Ile Gln Ala Gly
 405 410 415
 Val Pro Gly Ala Ser Leu Leu Asp Asp Leu Tyr Lys Tyr Phe Phe Phe
 420 425 430

His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met
435 440 445

Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp
450 455 460

Met Glu Glu Met Leu Pro Arg Ser
465 470

<210> 787
<211> 83
<212> PRT
<213> Homo sapiens

<400> 787
Met Lys Lys Val Cys Trp Val Trp AlaLeu Ala His Leu Val Leu Cys
1 5 10 15

Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln
20 25 30

Pro Cys Lys Gly Ser Pro Ser Ser Val CysLys Ala Arg Arg Cys Leu
35 40 45

His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Tyr Lys Tyr Ser Val
50 55 60

Arg Leu Ile Ile Cys His His His Pro His Ala Leu Lys Ala GluLeu
65 70 75 80

Thr Asp Asp

<210> 788
<211> 359
<212> PRT
<213> Homo sapiens

<400> 788
Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu
1 5 10 15

Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr
20 25 30

Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr
35 40 45

Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala
50 55 60

Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu
65 70 75 80

Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val
 85 90 95
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe
 100 105 110
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe
 115 120 125
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr His Cys Ser
 130 135 140
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val
 145 150 155 160
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Arg Ala
 165 170 175
 Val Pro Ser Ala Glu Pro Gln Ala Gly Gly Pro Met Thr Leu Ser Cys
 180 185 190
 Gln Thr Lys Leu Pro Leu Gln Arg Ser Ala Ala Arg Leu Leu Phe Ser
 195 200 205
 Phe Tyr Lys Asp Gly Arg Ile Val Gln Ser Arg Gly Leu Ser Ser Glu
 210 215 220
 Phe Gln Ile Pro Thr Ala Ser Glu Asp His Ser Gly Ser Tyr Trp Cys
 225 230 235 240
 Glu Ala Ala Thr Glu Asp Asn Gln Val Trp Lys Gln Ser Pro Gln Leu
 245 250 255
 Glu Ile Arg Val Gln Gly Ala Ser Ser Ser Ala Ala Pro Pro Thr Leu
 260 265 270
 Asn Pro Ala Pro Gln Lys Ser Ala Ala Pro Gly Thr Ala Pro Glu Glu
 275 280 285
 Ala Pro Gly Pro Leu Pro Pro Pro Pro Thr Pro Ser Ser Glu Asp Pro
 290 295 300
 Gly Phe Ser Ser Pro Leu Gly Met Pro Asp Pro His Leu Tyr His Gln
 305 310 315 320
 Met Gly Leu Leu Leu Lys His Met Gln Asp Val Arg Val Leu Leu Gly
 325 330 335
 His Leu Leu Met Glu Leu Arg Glu Leu Ser Gly His Arg Lys Pro Gly
 340 345 350
 Thr Thr Lys Ala Thr Ala Glu
 355

<210> 789
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 789
 Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys
 1 5 10 15
 Ser Phe Leu Ser Glu Glu Leu Gly Ser Glu Val Leu Asn Leu Leu Thr
 20 25 30
 Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu
 35 40 45
 Leu Phe Val His Gly Leu Pro Gly Ser Gly Lys Thr Ile Leu Ala Leu
 50 55 60
 Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn
 65 70 75 80
 Ile Leu Tyr Ile Cys Glu Asn Gln Pro Leu Lys Lys Leu Val Ser Phe
 85 90 95
 Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys
 100 105 110
 Asn Asn Phe Glu His Ile Gln His Ile Ile Ile Asp Asp Ala Gln Asn
 115 120 125
 Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr
 130 135 140
 Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr
 145 150 155 160
 Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr
 165 170 175
 Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln
 180 185 190

<210> 790
 <211> 379
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (283)
 <223> Xaa equals any of the naturally occurring amino acids

```

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring amino acids

<400> 790
Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu
 1           5           10           15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr
          20           25           30

His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly
          35           40           45

Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys
 50           55           60

Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met
 65           70           75           80

Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val
          85           90           95

Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val
          100          105          110

Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln
          115          120          125

Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu
          130          135          140

Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu
          145          150          155          160

Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile
          165          170          175

Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser
          180          185          190

Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn
          195          200          205

Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu
          210          215          220

Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Al
          225          230          235          240

Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp

```

	245		250		255										
Arg	Lys	Leu	Leu	Val	Gly	Phe	Leu	Glu	Asp	Val	Met	Thr	Leu	Leu	Ser
		260						265					270		
Leu	Ser	His	Ala	Pro	Leu	Asp	Ser	Leu	Lys	Xaa	Ser	Phe	Val	Glu	Leu
		275					280					285			
Gly	Ala	Asn	Gln	Ala	Tyr	His	Glu	Leu	Leu	Leu	Thr	Val	Leu	Xaa	Tyr
	290					295					300				
Gly	Val	Xaa	His	Thr	Ser	Ala	Leu	Val	Arg	Cys	Thr	Ala	Ala	Arg	Met
305					310					315					320
Phe	Glu	Leu	Leu	Val	Lys	Gly	Val	Asn	Glu	Thr	Leu	Val	Ala	Gln	Arg
				325					330					335	
Val	Val	Pro	Ala	Leu	Ile	Thr	Leu	Ser	Ser	Asp	Pro	Glu	Ile	Ser	Val
			340					345					350		
Arg	Ile	Ala	Thr	Ile	Pro	Ala	Phe	Gly	Thr	Ile	Met	Glu	Thr	Val	Ile
	355						360					365			
Gln	Arg	Glu	Leu	Leu	Glu	Arg	Val	Lys	Met	Gln					
	370					375									

<210> 791
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 791															
Met	Ser	Thr	Val	Thr	Trp	Leu	Leu	Lys	Leu	Phe	Thr	Gln	Phe	Met	Phe
1				5					10					15	
Pro	Pro	Thr	Val	Ser	Asn	Ser	His	Thr	Cys	Ala	Arg	Tyr	Tyr	Val	Phe
			20					25					30		
Asn	Phe	Cys	Leu	Ile	Ile	Ser	Phe	Asn	Phe	Asn	Phe	His	Tyr	His	Trp
		35					40					45			

<210> 792
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 792															
Met	Lys	Ile	Leu	Ile	Leu	Phe	Ile	Phe	Ile	Pro	Gly	Leu	Leu	Val	Glu
1				5					10					15	

Lys Asn Gly Pro Asp His Val Cys Val Cys Met Cys Val Arg Val Cys
 20 25 30

Val Cys Ala His Leu Gly Leu Phe Ile
 35 40

<210> 793
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 793
 Met Phe Val Ala Val Phe Tyr Trp Val Leu Thr Val Phe Phe Leu Ile
 1 5 10 15
 Ile Tyr Ile Thr Met Thr Tyr Thr Arg Ile Pro Gln Val Pro Trp Thr
 20 25 30
 Thr Val Gly Leu Cys Phe Asn Gly Ser Ala Phe Val Leu Tyr Leu Ser
 35 40 45
 Ala Ala Val Val Asp Ala Ser Ser Val Ser Pro Glu Lys Asp Ser His
 50 55 60
 Asn Phe Asn Ser Trp Ala Ala Ser Ser Phe Phe Ala Phe Leu Val Thr
 65 70 75 80
 Ile Cys Tyr Ala Gly Asn Thr Tyr Phe Ser Phe Xaa Ala Trp Arg Xaa
 85 90 95
 Arg Thr Ile Gln
 100

<210> 794
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 794
 Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu
 1 5 10 15
 Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu

20										25					30				
Phe	Lys	Gly	Leu	Ala	Ala	Ala	Ala	Ser	Leu	Gln	Ile	Arg	Asp	Leu	Ala				
		35					40					45							
Ser	Arg	Leu	Thr	Thr	Gly	Pro	Arg	Thr	Cys	Arg	Val	Gln	Pro	Pro	Pro				
	50					55					60								
His	Pro	Gln	Ser	Ser	Pro	Pro	Trp	Pro	Gly	Pro	Pro	Gly	Ala	Glu	Thr				
	65				70					75					80				
Cys	Arg	Pro	Leu	Ser	Arg	Thr	Val	Gly	Gly	Val	Cys	Pro	Ser	Asp	Trp				
				85					90					95					
Pro	Val	Ser	Trp	Leu	Leu	Leu	Pro	Pro	Leu	Pro	Glu	Val	Val	Thr	Cys				
			100					105					110						
Ser	Cys	Pro	Arg	Ile	Lys	Ala	Arg	Pro	Glu	Arg	Thr	Pro	Glu	Leu	Leu				
		115					120					125							
Cys	Ala	Trp	Gly	Gly	Arg	Gly	Lys	His	Ser	Gln	Leu	Val	Ala						
	130					135					140								

<210> 795
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 795																			
Met	Val	Tyr	Arg	Ala	Phe	Leu	Ile	Ile	Ile	Leu	Arg	Phe	Ile	Leu	Ile				
	1			5					10					15					
Phe	Leu	Phe	Lys	Leu	Asn	Tyr	Ser	Lys	Leu	Cys	Pro	Glu	Ile	Pro	Phe				
			20					25					30						
Gly	Leu	Lys	Phe	Phe	Ser	Phe	Val	Cys	Ile	Lys	Val	Gln	Ile	Lys	Lys				
		35					40					45							
Thr	Ser	Arg	Lys	Arg	Arg	Pro	Tyr	Leu											
	50					55													

<210> 796
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 796																			
Met	Thr	Asn	Val	Tyr	Ser	Leu	Asp	Gly	Ile	Leu	Val	Phe	Gly	Leu	Leu				
	1			5					10					15					
Phe	Val	Cys	Thr	Cys	Ala	Tyr	Phe	Lys	Lys	Val	Pro	Arg	Leu	Lys	Thr				
			20					25					30						

Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly Val Phe Tyr Lys Ala
35 40 45

Ala Val Ile Gly Thr Arg Leu His Ala Ala Val Ala Ile Ala Cys Val
50 55 60

Val Met Ala Phe Tyr Val Leu Phe Ile Lys
65 70

<210> 797
<211> 45
<212> PRT
<213> Homo sapiens

<400> 797
Met Leu Leu Gln Phe Ser Ile Phe Phe Ala Pro Val Val Cys Leu Pro
1 5 10 15

Lys Tyr Ser Pro Phe Met Lys Glu Glu Cys Lys Ala Asp Pro Thr Arg
20 25 30

Asp Tyr Lys Phe Leu Tyr Ile Tyr Ile Glu Arg Gly Thr
35 40 45

<210> 798
<211> 399
<212> PRT
<213> Homo sapiens

<400> 798
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
1 5 10 15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
 130 135 140
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
 145 150 155 160
 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
 165 170 175
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
 180 185 190
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
 195 200 205
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
 210 215 220
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
 225 230 235 240
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
 245 250 255
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
 260 265 270
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
 275 280 285
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
 290 295 300
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
 305 310 315 320
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
 325 330 335
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
 340 345 350
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
 355 360 365
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
 370 375 380
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
 385 390 395

<210> 799
 <211> 223
 <212> PRT

<213> Homo sapiens

<400> 799

```
Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
  1          5          10          15

Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
          20          25          30

Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
          35          40          45

Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg
          50          55          60

Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met
          65          70          75          80

Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr Trp Asn Gln Ala Leu
          85          90          95

Gln Glu Leu Arg Arg Leu His His Ala Cys Gln Gly Ala Pro Val Leu
          100          105          110

Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln Ala His Met Gln Gln
          115          120          125

Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro Asn Gln Gln Pro Glu
          130          135          140

Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr Val Lys Leu Thr Glu
          145          150          155          160

Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu Leu Gly Lys Ala Lys
          165          170          175

Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln Pro Gly Pro Arg Pro
          180          185          190

Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp Glu His Cys Trp Lys
          195          200          205

Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser Phe Phe Arg Gly
          210          215          220
```

<210> 800

<211> 52

<212> PRT

<213> Homo sapiens

<400> 800

```
Met Pro Ser Leu Asn Leu Val Leu Arg Pro Leu Ile Cys Leu Ala Ser
  1          5          10          15

Ile Thr Ser Phe Leu Ile Phe Phe Pro Leu Leu Thr Leu Ile Leu Cys
```

20 25 30
 Ser Pro Asn Ser Pro Pro Phe Pro Leu Pro Ala His Pro Glu Arg His
 35 40 45
 Thr His Thr Gln
 50

<210> 801
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 801
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val
 115 120 125
 Arg Ile Leu Ala Thr Arg His
 130 135

<210> 802
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 802
 Met Thr Val Ile Leu Ile Ile Leu Ile Val Val Met Ala Arg Tyr Cys
 1 5 10 15
 Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp His Glu
 20 25 30

Asp Phe Phe Thr Pro Gln Gln His Asp Lys Ser Lys Lys Pro Lys Lys
 35 40 45
 Asp Lys Lys Asn Lys Lys Ser Lys Gln Pro Leu Tyr Ser Ser Iâ Val
 50 55 60
 Thr Val Glu Ala Ser Lys Pro Asn Gly Gln Arg Tyr Asp Ser Val Asn
 65 70 75 80
 Glu Lys Leu Ser Asp Ser Pro Ser Met Gly Arg Tyr Arg Ser Val Asn
 85 90 95
 Gly Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser Ser Ser
 100 105 110
 Pro Leu Pro Thr Val Gln Leu His Pro Gln Ser Pro Thr Ala Gly Lys
 115 120 125
 Lys His Gln Ala Val Gln Asp Leu Pro Pro Ala Asn Thr Phe Val Gly
 130 135 140
 Ala Gly Asp Asn Ile Ser Ile Gly Ser Asp His Cys Ser Glu Tyr Ser
 145 150 155 160
 Cys Gln Thr Asn Asn Lys Tyr Ser Lys Gln Met Arg Leu His Pro Tyr
 165 170 175
 Ile Thr Val Phe Gly
 180

<210> 803
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 803
 Met Gln Leu Thr Leu Gly Gly Ala Ala Val Gly Ala Gly Ala Val Leu
 1 5 10 15
 Ala Ala Ser Leu Leu Trp Ala Cys Ala Val Gly Leu Tyr Met Gly Gln
 20 25 30
 Leu Glu Leu Asp Val Glu Leu Val Pro Glu Asp Asp Gly Thr Ala Ser
 35 40 45
 Ala Glu Gly Pro Asp Glu Ala Gly Arg Pro Pro Pro Glu
 50 55 60

<210> 804
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 804

Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe
1 5 10 15
Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn
20 25 30
Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu
35 40 45
Leu Gln Thr Val Ile Asn Val Ser Arg Thr
50 55

<210> 805

<211> 950

<212> PRT

<213> Homo sapiens

<400> 805

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
85 90 95
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
100 105 110
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
115 120 125
Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
130 135 140
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
145 150 155 160
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
165 170 175
Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
180 185 190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
 195 200 205
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
 210 215 220
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
 225 230 235 240
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His ArgPro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu ArgPro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro GlyArg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys LysLys
 485 490 495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu
 500 505 510
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn
 515 520 525
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu
 530 535 540
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp
 545 550 555 560
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser
 565 570 575
 Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Lys Gly Gly Lys Thr Glu
 580 585 590
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro
 595 600 605
 Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg
 610 615 620
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln
 625 630 635 640
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys
 645 650 655
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys
 660 665 670
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp
 675 680 685
 Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu
 690 695 700
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp
 705 710 715 720
 Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val
 725 730 735
 Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys
 740 745 76
 Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu
 755 760 765
 Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile
 770 775 780
 Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala
 785 790 795 800

Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu
 805 810 815
 Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe
 820 825 830
 Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His
 835 840 845
 Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe
 850 855 860
 Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro
 865 870 875 880
 Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met
 885 890 895
 Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg
 900 905 910
 Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln
 915 920 925
 Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr
 930 935 940
 His His Gly Tyr Pro Tyr
 945 950

<210> 806
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 806
 Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly
 1 5 10 15
 Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly
 20 25 30
 Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr
 35 40 45
 Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn
 50 55 60
 Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr
 65 70 75 80
 Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
 85 90 95
 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp

	100		105		110										
Arg	Ala	Gly	Ile	Lys	Asp	Arg	Val	Tyr	Ser	Asn	Ser	Ile	Tyr	Glu	Leu
		115					120					125			
Leu	Glu	Asn	Gly	Gln	Arg	Ala	Gly	Thr	Cys	Val	Leu	Glu	Tyr	Ala	Thr
	130					135					140				
Pro	Leu	Gln	Thr	Leu	Phe	Ala	Met	Ser	Gln	Tyr	Ser	Gln	Ala	Gly	Phe
145					150					155					160
Ser	Gly	Glu	Asp	Arg	Leu	Glu	Gln	Ala	Lys	Leu	Phe	Cys	Arg	Thr	Leu
				165					170					175	
Glu	Asp	Ile	Leu	Ala	Asp	Ala	Pro	Glu	Ser	Gln	Asn	Asn	Cys	Arg	Leu
			180					185					190		
Ile	Ala	Tyr	Gln	Glu	Pro	Ala	Asp	Asp	Ser	Ser	Phe	Ser	Leu	Ser	Gln
		195					200					205			
Glu	Val	Leu	Arg	His	Leu	Arg	Gln	Glu	Glu	Lys	Glu	Glu	Val	Thr	Val
	210					215					220				
Gly	Ser	Leu	Lys	Thr	Ser	Ala	Val	Pro	Ser	Thr	Ser	Thr	Met	Ser	Gln
225					230					235					240
Glu	Pro	Glu	Leu	Leu	Ile	Ser	Gly	Met	Glu	Lys	Pro	Leu	Pro	Leu	Arg
			245						250					255	
Thr	Asp	Phe	Ser												
			260												

<210> 807

<211> 84

<212> PRT

<213> Homo sapiens .

<400> 807

Met	Ala	Gly	Cys	Cys	Leu	Lys	Leu	Phe	Gly	Val	Leu	Ser	Leu	Cys	Phe
1				5					10					15	
Leu	Cys	Gly	Leu	Ile	Ser	Ile	Glu	Arg	Val	Ile	Cys	Asn	Pro	Val	Ser
			20					25					30		
Ala	Asp	Phe	Gln	Val	Ser	Thr	Phe	Cys	Gln	Arg	His	Cys	Leu	Leu	Arg
		35					40					45			
Ser	Lys	Val	Met	Phe	Leu	Ile	Lys	Gly	Ile	Thr	Ala	Thr	Ile	Glu	Val
	50					55					60				
Ile	Asn	Glu	Asn	Cys	Thr	Leu	Val	Ala	Ala	Pro	Pro	Ile	Gly	Phe	Pro
65					70					75					80
Ile	Val	Phe	Leu												

<210> 808
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 808
 Met Pro Leu Pro Ser Ser Phe Pro Leu Pro Val Phe Leu Ser Ser Cys
 1 5 10 15
 Pro Phe Leu Met Ser Val Ser Ile Gly Phe Leu Ile Leu Val Phe Asn
 20 25 30
 Val His Pro
 35

<210> 809
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 809
 Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Arg Cys Ser
 1 5 10 15
 Cys Ser Ala Leu Leu His Glu Ser Asn His Arg Pro Tyr Leu Asn Lys
 20 25 30
 Trp Ser Leu Leu Ser Thr Asn Lys Thr Leu Phe Arg Asn Asn Arg Gly
 35 40 45
 Leu Asp Leu Val Leu Val Cys
 50 55

<210> 810
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 810
 Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln
 1 5 10 15
 Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala
 20 25 30
 Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu
 35 40 45
 Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp
 50 55 60

Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro
65 70 75

<210> 811
<211> 41
<212> PRT
<213> Homo sapiens

<400> 811
Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
1 5 10 15
Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
20 25 30
Ile Phe Ile Gly Pro Glu Gln Phe Leu
35 40

<210> 812
<211> 58
<212> PRT
<213> Homo sapiens

<400> 812
Met Arg Ile Ser Arg Cys Asn Ile Ser Leu Glu Ile Val Ser Pro Ser
1 5 10 15
Ile Leu Leu Thr Phe Leu Asp Leu Ile Ile Leu Leu Trp Ala Leu Ala
20 25 30
Ser Cys Tyr Arg Arg Phe Thr Ser Phe Pro Ala Leu Asn Leu Pro Asp
35 40 45
Val Asn Ser Thr Leu His Tyr Leu Gln Gln
50 55

<210> 813
<211> 606
<212> PRT
<213> Homo sapiens

<400> 813
Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
1 5 10 15
Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
20 25 30
Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
35 40 45

Val	Gly	Pro	Tyr	His	Asn	Pro	Gln	Glu	Thr	Tyr	His	Tyr	Tyr	Gln	Leu	50	55	60
Pro	Val	Cys	Cys	Pro	Glu	Lys	Ile	Arg	His	Lys	Ser	Leu	Ser	Leu	Gly	65	70	75
Glu	Val	Leu	Asp	Gly	Asp	Arg	Met	Ala	Glu	Ser	Leu	Tyr	Glu	Ile	Arg	85	90	95
Phe	Arg	Glu	Asn	Val	Glu	Lys	Arg	Ile	Leu	Cys	His	Met	Gln	Leu	Ser	100	105	110
Ser	Ala	Gln	Val	Glu	Gln	Leu	Arg	Gln	Ala	Ile	Glu	Glu	Leu	Tyr	Tyr	115	120	125
Phe	Glu	Phe	Val	Val	Asp	Asp	Leu	Pro	Ile	Arg	Gly	Phe	Val	Gly	Tyr	130	135	140
Met	Glu	Glu	Ser	Gly	Phe	Leu	Pro	His	Ser	His	Lys	Ile	Gly	Leu	Trp	145	150	155
Thr	His	Leu	Asp	Phe	His	Leu	Glu	Phe	His	Gly	Asp	Arg	Ile	Ile	Phe	165	170	175
Ala	Asn	Val	Ser	Val	Arg	Asp	Val	Lys	Pro	His	Ser	Leu	Asp	Gly	Leu	180	185	190
Arg	Pro	Asp	Glu	Phe	Leu	Gly	Leu	Thr	His	Thr	Tyr	Ser	Val	Arg	Trp	195	200	205
Ser	Glu	Thr	Ser	Val	Glu	Arg	Arg	Ser	Asp	Arg	Arg	Arg	Gly	Asp	Asp	210	215	220
Gly	Gly	Phe	Phe	Pro	Arg	Thr	Leu	Glu	Ile	His	Trp	Leu	Ser	Ile	Ile	225	230	235
Asn	Ser	Met	Val	Leu	Val	Phe	Leu	Leu	Val	Gly	Phe	Val	Ala	Val	Ile	245	250	255
Leu	Met	Arg	Val	Leu	Arg	Asn	Asp	Leu	Ala	Arg	Tyr	Asn	Leu	Asp	Glu	260	265	270
Glu	Thr	Thr	Ser	Ala	Gly	Ser	Gly	Asp	Asp	Phe	Asp	Gln	Gly	Asp	Asn	275	280	285
Gly	Trp	Lys	Ile	Ile	His	Thr	Asp	Val	Phe	Arg	Phe	Pro	Pro	Tyr	Arg	290	295	300
Gly	Leu	Leu	Cys	Ala	Val	Leu	Gly	Val	Gly	Ala	Gln	Phe	Leu	Ala	Leu	305	310	315
Gly	Thr	Gly	Ile	Ile	Val	Met	Ala	Leu	Leu	Gly	Met	Phe	Asn	Val	His	325	330	335
Arg	His	Gly	Ala	Ile	Asn	Ser	Ala	Ala	Ile	Leu	Leu	Tyr	Ala	Leu	Thr	340	345	350

Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
 355 360 365
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu ThrThr Ser Leu Phe Ser
 370 375 380
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
 385 390 395 400
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile LeuLeu Leu Leu
 405 410 415
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
 420 425 430
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys ArgThr Lys
 435 440 445
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
 450 455 460
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val
 465 470 475 480
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
 485 490 495
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly
 500 505 510
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
 515 520 525
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu
 530 535 540
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
 545 550 555 560
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
 565 570 575
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
 580 585 590
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
 595 600 605

<210> 814
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 814

Met Ala Val Arg Cys Ile Leu Ala Gly Gly Cys Leu Pro Ala Val Arg
 1 5 10 15
 Gly Thr Phe Ser Val Leu Leu Lys Gly Met Tyr Lys Pro Met Gly Asp
 20 25 30
 Leu Ile Ser Cys Val Phe Arg Cys Val Ala Gly Gly Leu Gly Trp Gly
 35 40 45
 Gly Gly Ala Ser Glu Gln Cys Val Glu Ser Leu Val Val Th
 50 55 60

<210> 815

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring amino acids

<400> 815

Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu
 1 5 10 15
 Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa
 20 25 30
 His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp
 35 40 45
 Gln Arg Lys Arg Trp Ser Glu Ala
 50 55

<210> 816

<211> 90

<212> PRT

<213> Homo sapiens

<400> 816

Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly
 1 5 10 15
 Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu
 20 25 30
 Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys
 35 40 45
 His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg
 50 55 60

Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro
65 70 75 80

Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly
85 90

<210> 817
<211> 672
<212> PRT
<213> Homo sapiens

<400> 817
Met Cys Ser Arg Val Pro Leu Leu LeuPro Leu Leu Leu Leu Leu Ala
1 5 10 15
Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln
20 25 30
Pro Gln Thr Val Phe Cys Thr Ala Arg GlnGly Thr Thr Val Pro Arg
35 40 45
Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile
50 55 60
Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu GlnLeu
65 70 75 80
Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe
85 90 95
Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala AsnArg Leu
100 105 110
His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg
115 120 125
Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe
130 135 140
Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu
145 150 155 160
Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu
165 170 175
Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala
180 185 190
Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp
195 200 205
Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser
210 215 220
Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly

225		230		235		240
Leu Thr Arg	Leu Arg	Leu Ala Gly Asn	Thr Arg	Ile Ala Gln	Leu Arg	
	245		250		255	
Pro Glu Asp	Leu Ala Gly	Leu Ala Ala	Leu Gln Glu	Leu Asp	Val Ser	
	260	265		270		
Asn Leu Ser	Leu Gln Ala	Leu Pro Gly	Asp Leu Ser	Gly Leu Phe	Pro	
	275	280		285		
Arg Leu Arg	Leu Leu Ala	Ala Ala Arg	Asn Pro Phe	Asn Cys	Val Cys	
	290	295	300			
Pro Leu Ser	Trp Phe Gly	Pro Trp Val	Arg Glu Ser	His Val Thr	Leu	
305	310		315		320	
Ala Ser Pro	Glu Glu Thr	Arg Cys His	Phe Pro Pro	Lys Asn Ala	Gly	
	325		330	335		
Arg Leu Leu	Leu Glu Leu	Asp Tyr Ala	Asp Phe Gly	Cys Pro Ala	Thr	
	340	345		350		
Thr Thr Thr	Ala Thr Val	Pro Thr Thr	Arg Pro Val	Val Arg Glu	Pro	
	355	360		365		
Thr Ala Leu	Ser Ser Ser	Leu Ala Pro	Thr Trp Leu	Ser Pro Thr	Ala	
	370	375	380			
Pro Ala Thr	Glu Ala Pro	Ser Pro Pro	Ser Thr Ala	Pro Pro Thr	Val	
385	390		395		400	
Gly Pro Val	Pro Gln Pro	Gln Asp Cys	Pro Pro Ser	Thr Cys Leu	Asn	
	405	410		415		
Gly Gly Thr	Cys His Leu	Gly Thr Arg	His His Leu	Ala Cys Leu	Cys	
	420	425		430		
Pro Glu Gly	Phe Thr Gly	Leu Tyr Cys	Glu Ser Gln	Met Gly Gln	Gly	
	435	440	445			
Thr Arg Pro	Ser Pro Thr	Pro Val Thr	Pro Arg Pro	Pro Arg Ser	Leu	
	450	455	460			
Thr Leu Gly	Ile Glu Pro	Val Ser Pro	Thr Ser Leu	Arg Val Gly	Leu	
465	470		475		480	
Gln Arg Tyr	Leu Gln Gly	Ser Ser Val	Gln Leu Arg	Ser Leu Arg	Leu	
	485	490		495		
Thr Tyr Arg	Asn Leu Ser	Gly Pro Asp	Lys Arg Leu	Val Thr Leu	Arg	
	500	505		510		
Leu Pro Ala	Ser Leu Ala	Glu Tyr Thr	Val Thr Gln	Leu Arg Pro	Asn	
	515	520	525			
Ala Thr Tyr	Ser Val Cys	Val Met Pro	Leu Gly Pro	Gly Arg Val	Pro	

530	535	540
Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His		
545	550	555 560
Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu GlyAsn Leu Pro Leu		
	565	570 575
Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala		
	580	585 590
Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala MetAla Ala Ala		
	595	600 605
Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu		
	610	615 620
Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala		
	625	630 635 640
Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp		
	645	650 655
Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile		
	660	665 670

<210> 818
 <211> 282
 <212> PRT
 <213> Homo sapiens

<400> 818
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala
 85 90 95
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser
 100 105 110

Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu
 115 120 125
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp
 130 135 140
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn
 145 150 155 160
 Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu
 165 170 175
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser
 180 185 190
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val
 195 200 205
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu
 210 215 220
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His
 225 230 235 240
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser
 245 250 255
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly
 260 265 270
 Val Ala Val Ser Leu Ser His Ile Arg Asn
 275 280

<210> 819
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 819

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
 1 5 10 15
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80

Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Leu Ser Met
 115 120 125
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly
 130 135 140
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Pro Pro
 145 150 155 160
 Trp Gln Pro Ala Met Ser Pro Val Pro Gly Thr Gly Gly Pro Pro Cys
 165 170 175
 Gly Leu

<210> 820
 <211> 298
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 820
 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Leu Arg Tyr
 1 5 10 15
 Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
 20 25 30
 Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
 35 40 45
 Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
 50 55 60
 Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80
 Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
 100 105 110
 Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
 115 120 125
 Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
 130 135 140
 Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
 145 150 155 160
 Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
 165 170 175
 Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
 180 185 190
 Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
 195 200 205
 Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
 210 215 220
 Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
 225 230 235 240
 Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
 245 250 255
 Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser
 260 265 270
 Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
 275 280 285
 Asp Phe Lys His Thr Lys Ser Phe Ile Ile
 290 295

<210> 821

<211> 46

<212> PRT

<213> Homo sapiens

<400> 821

Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val
 1 5 10 15
 Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys Arg Pro Leu
 20 25 30
 Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly
 35 40 45

<210> 822
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 822
 Met Ile Lys Ile Leu Lys Glu Ala Ile Glu Glu Thr Ser Phe Cys Ser
 1 5 10 15
 Phe Trp Arg Ile Ser Phe Gln Leu Ser Ile His His Ile Phe Leu Ile
 20 25 30
 Phe Cys Ala Gln Leu Thr Thr Leu Leu Tyr Ser Thr Phe Leu Phe Ile
 35 40 45
 Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile
 50 55 60
 Leu
 65

<210> 823
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 823
 Met Lys Leu Leu Tyr Leu Phe Leu Ala Ile Leu Leu Ala Ile Glu Glu
 1 5 10 15
 Pro Val Ile Ser Gly Lys Arg His Ile Leu Arg Cys Met Gly Asn Ser
 20 25 30
 Gly Ile Cys Arg Ala Ser Cys Lys Lys Asn Glu Gln Pro Tyr Leu Tyr
 35 40 45
 Cys Arg Asn Cys Gln Ser Cys Cys Leu Gln Ser Tyr Met Arg Ile Ser
 50 55 60
 Ile Ser Gly Lys Glu Glu Asn Thr Asp Trp Ser Tyr Glu Lys Gln Trp
 65 70 75 80
 Pro Arg Leu Pro

<210> 824
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 824
 Met Gly Trp Leu Trp Leu Glu Leu Leu Gly Leu Ser Ile Glu Glu Thr

1 5 10 15
 Leu Val Trp Ala Phe Leu Asn Lys Phe Leu Asp Ser Ser Ala Ala Leu
 20 25 30
 Leu Trp Arg Ile Leu Gly Lys Ser Asn Leu Ser Thr
 35 40

<210> 825
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 825
 Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly
 1 5 10 15
 Ala Glu Asn Leu His Val Lys Ile Ser Cys SerLeu Asp Trp Leu Met
 20 25 30
 Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala
 35 40 45
 Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg IleHis Thr
 50 55 60
 Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr
 65 70 75 80
 Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe
 85 90 95
 Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys
 100 105 110
 Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn
 115 120 125
 Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr
 130 135 140
 Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu
 145 150 155

<210> 826
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 826
 Met Val Ser Ala Ser Val Phe Val Gly Leu Val Ile Phe Tyr Ile Ala
 1 5 10 15

Phe Cys Leu Leu Trp Pro Leu Val Val Lys Gly Cys Thr Met Ile Arg
 20 25 30
 Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu Ser Tyr Tyr Thr Tyr Ala
 35 40 45
 Ser Ile Ser Gly Ile Ser Ser Met Pro Ser Leu Arg His Ser Arg Met
 50 55 60
 Gly Ser Met Phe Ser Ser Arg Met Thr Glu Asp Arg Ala Glu Pro Lys
 65 70 75 80
 Glu Ala Val Glu Arg Gln Leu Met Thr
 85

<210> 827
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 827
 Met Leu Val Ile Ala Gly Gly Ile Leu Ala Ala Leu Leu Leu Leu Ile
 1 5 10 15
 Val Val Val Leu Cys Leu Tyr Phe Lys Ile His Asn Ala Leu Lys Ala
 20 25 30
 Ala Lys Glu Pro Glu Ala Val Ala Val Lys Asn His Asn Pro Asp Lys
 35 40 45
 Val Trp Trp Ala Lys Asn Ser Gln Ala Lys Thr Ile Ala Thr Glu Ser
 50 55 60
 Cys Pro Ala Leu Gln Cys Cys Glu Gly Tyr Arg Met Cys Ala Ser Phe
 65 70 75 80
 Asp Ser Leu Pro Pro Cys Cys Cys Asp Ile Asn Glu Gly Leu
 85 90

<210> 828
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 828
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
 1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu
 35

<210> 829
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 829
 Met Ala Leu Phe Ser Cys Leu Leu Leu Leu Lys Gln Ser AspGly Ala
 1 5 10 15
 Ser Pro Val Leu Arg Ala Leu Ala Ala Ser Cys Leu Ala Ser Pro Ala
 20 25 30
 Gly Cys Cys Gly Thr Arg Lys Ala Leu Asn Gly Asn Val Gly GluLys
 35 40 45
 Val Gly Phe Thr Phe Met Ser Phe Gln Gly Cys Asp Pro Ser Ser Pro
 50 55 60
 Gly Cys Leu Cys Cys Ser Leu Leu Pro Ser Asn Ser Gln Leu Val Phe
 65 70 75 80
 Ile Ser Phe Leu Val Leu Ser Gly Leu Ala
 85 90

<210> 830
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 830
 Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala Asn Leu
 1 5 10 15
 Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val
 20 25 30
 Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val His
 35 40 45
 Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys
 50 55 60
 Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro
 65 70 75 80
 Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys
 85 90 95

Gly Val Leu Val Thr
100

<210> 831
<211> 86
<212> PRT
<213> Homo sapiens

<400> 831
Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala
1 5 10 15
Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser
20 25 30
Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly
35 40 45
Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser
50 55 60
Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr
65 70 75 80
Val Leu Ser Ile Leu His
85

<210> 832
<211> 246
<212> PRT
<213> Homo sapiens

<400> 832
Met Ala Leu Leu Leu Cys Leu Val Cys Leu Thr Ala Ala Leu Ala His
1 5 10 15
Gly Cys Leu His Cys His Ser Asn Phe Ser Lys Lys Phe Ser Phe Tyr
20 25 30
Arg His His Val Asn Phe Lys Ser Trp Trp Val Gly Asp Ile Pro Val
35 40 45
Ser Gly Ala Leu Leu Thr Asp Trp Ser Asp Asp Thr Met Lys Glu Leu
50 55 60
His Leu Ala Ile Pro Ala Lys Ile Thr Arg Glu Lys Leu Asp Gln Val
65 70 75 80
Ala Thr Ala Val Tyr Gln Met Met Asp Gln Leu Tyr Gln Gly Lys Met
85 90 95
Tyr Phe Pro Gly Tyr Phe Pro Asn Glu Leu Arg Asn Ile Phe Arg Glu

100	105	110
Gln Val His Leu Ile Gln Asn Ala Ile Ile GluSer Arg Ile Asp Cys		
115	120	125
Gln His Arg Cys Gly Lys Gln Gly Ser Val Gln Ala Glu Gly Arg Ala		
130	135	140
Gly Gly Ser Ser Gly Pro Trp Arg Leu Arg Gly Ala Leu Ala Ala Leu		
145	150	155
Val Arg Val Ser Gly Ile Phe Gln Tyr Glu Thr Ile Ser Cys Asn Asn		
165	170	175
Cys Thr Asp Ser His Val Ala Cys Phe Gly Tyr Asn Cys Glu SerSer		
180	185	190
Ala Gln Trp Lys Ser Ala Val Gln Gly Leu Leu Asn Tyr Ile Asn Asn		
195	200	205
Trp His Lys Gln Asp Thr Ser Met Ser Leu Val Ser Pro Ala Leu Arg		
210	215	220
Cys Leu Glu Pro Pro His Leu Ala Asn Leu Thr Leu Glu Asp Ala Ala		
225	230	235
Glu Cys Leu Lys Gln His		
245		

<210> 833

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 833

Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
1 5 10 15
Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
20 25 30
Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
35 40 45
Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
50 55 60
Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
65 70 75 80

Arg Val Ser Gly

<210> 834

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring amino acids

<400> 834

Met	Phe	Leu	Ala	Ser	Trp	Leu	Leu	Phe	Cys	Ile	Val	Ala	Pro	Lys	Asp	
1				5					10					15		
Asp	Ala	His	Leu	Ser	Phe	Ile	Gln	Cys	Lys	Asp	Ile	Trp	Lys	Asp	Asn	
			20					25					30			
Arg	Lys	Tyr	Ser	Cys	Phe	His	Phe	Lys	Ser	Asp	Gln	Leu	Leu	Glu	Leu	
		35					40					45				
Ala	Ser	Lys	Ala	Cys	Thr	Ser	Phe	Gln	Ala	Gln	Ser	Arg	Ser	Phe	Thr	
	50					55					60					
Ala	Gly	Ala	Val	Pro	Ser	Glu	His	Pro	Glu	Leu	Pro	Cys	Gly	Ser	Gln	
65					70					75					80	
Gln	Leu	Cys	Cys	Gly	Cys	Thr	Ala	Arg	Leu	Gly	Gly	Xaa	Trp	Ile	Gly	
				85					90					95		
Ala	Ser	Arg	Cys	Gly	Ser	Gly	Ser	Ala	Phe	Leu	Ala	Ser	Pro			
			100					105					110			

<210> 835

<211> 56

<212> PRT

<213> Homo sapiens

<400> 835

Met	Cys	Leu	Ala	Phe	Ser	Val	Ile	Ile	Leu	Ala	Gly	Ala	Gly	Ser	Ser	
1				5					10					15		
Arg	Ser	Trp	Asn	Ser	Val	Leu	Val	Glu	Lys	Glu	Val	Val	Glu	Gly	Gly	
			20					25					30			
Leu	Gly	Pro	Trp	Gly	Asn	Cys	Ser	Ala	Glu	Pro	Leu	Pro	His	Leu	Leu	
		35					40					45				
Leu	Pro	Arg	Thr	Asn	Leu	Lys	Gly									
	50					55										

<210> 836
<211> 53
<212> PRT
<213> Homo sapiens

<400> 836
Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu
1 5 10 15
Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr
20 25 30
Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro
35 40 45
Ala Val Ser Arg Ala
50

<210> 837
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring amino acids

<400> 837
Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala
1 5 10 15
Ala Gly Pro Arg Phe Pro Ser Arg Glu Arg Gly Val Gly Gly Val
20 25 30
Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly
35 40 45
Ser Xaa
50

<210> 838
<211> 32
<212> PRT
<213> Homo sapiens

<400> 838

Met Pro Val Pro Leu Trp Leu Val Leu Trp Phe Cys Phe Leu Leu Tyr
1 5 10 15
Val Ala Ser Arg Arg Thr Phe Gly Leu Ala Asn Tyr Met Pro Leu Pro
20 25 30

<210> 839

<211> 71

<212> PRT

<213> Homo sapiens

<400> 839

Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
1 5 10 15
Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His
20 25 30
Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu
35 40 45
Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu
50 55 60
Ser Val Thr Lys Thr Phe Leu
65 70

<210> 840

<211> 230

<212> PRT

<213> Homo sapiens

<400> 840

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
1 5 10 15
Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
20 25 30
Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
35 40 45
Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
50 55 60
Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
65 70 75 80
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile

85										90					95				
Ile	Ser	Val	Val	Gly	Met	Arg	Cys	Thr	Val	Phe	Cys	Gln	Glu	Ser	Arg				
			100					105					110						
Ala	Lys	Asp	Arg	Val	Ala	Val	Ala	Gly	Gly	Val	Phe	Phe	Ile	Leu	Gly				
		115					120					125							
Gly	Leu	Leu	Gly	Phe	Ile	Pro	Val	Ala	Trp	Asn	Leu	His	Gly	Ile	Leu				
	130					135					140								
Arg	Asp	Phe	Tyr	Ser	Pro	Leu	Val	Pro	Asp	Ser	Met	Lys	Phe	Glu	Ile				
145					150				155						160				
Gly	Glu	Ala	Leu	Tyr	Leu	Gly	Ile	Ile	Ser	Ser	Leu	Phe	Ser	Leu	Ile				
			165						170						175				
Ala	Gly	Ile	Ile	Leu	Cys	Phe	Ser	Cys	Ser	Ser	Gln	Arg	Asn	Arg	Ser				
			180					185					190						
Asn	Tyr	Tyr	Asp	Ala	Tyr	Gln	Ala	Gln	Pro	Leu	Ala	Thr	Arg	Ser	Ser				
	195					200						205							
Pro	Arg	Pro	Gly	Gln	Pro	Pro	Lys	Val	Lys	Ser	Glu	Phe	Asn	Ser	Tyr				
	210					215					220								
Ser	Leu	Thr	Gly	Tyr	Val														
225					230														

<210> 841
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 841
 Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
 1 5 10 15
 Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
 20 25 30
 Ser Ala Gly Pro Ala
 35

<210> 842
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 842
 Met Arg Val Pro Leu Val Leu Ser Trp Ala Phe Val Leu Val Gly Phe
 1 5 10 15

Ser Gly Val Tyr Leu Ala Ser Glu Ser Phe Trp Phe Pro Pro Ser Leu
 20 25 30
 Cys Asp Leu Thr Ser Pro Pro Gly Leu His Leu Trp Lys Phe Ile Arg
 35 40 45
 Asp Leu Val Ser Met Glu Glu Leu Thr Asp Ser Ala Arg Glu Met Gly
 50 55 60
 Tyr Trp Met Met Val Phe Ser Leu Lys Ala Met Phe Pro Val Ser Ser
 65 70 75 80
 Gly Cys Phe Gln Glu Arg Gln Glu Thr Asn Lys Ser Leu Thr Leu Leu
 85 90 95
 Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly Gln Thr Trp
 100 105 110
 Ala Arg Val Arg Val Thr Lys Pro Pro Thr Thr Ala Thr Ala Ala Tyr
 115 120 125
 Asn Arg His Ile Arg
 130

<210> 843
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 843
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu
 1 5 10 15
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser
 20 25 30
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn
 35 40

<210> 844
 <211> 85
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
 Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
 1 5 10 15

Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
20 25 30
Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
35 40 45
Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
50 55 60
Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
65 70 75 80
Ser Ala Asn Gly Ser
85

<210> 845
<211> 102
<212> PRT
<213> Homo sapiens

<400> 845
Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
1 5 10 15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
20 25 30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
35 40 45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
50 55 60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
65 70 75 80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
85 90 95
Asp Lys Gly Trp Asp Leu
100

<210> 846
<211> 102
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring amino acids
<220>

<221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 846
 Met Gly Arg Arg Ser Gly Leu Leu Gly Leu Arg Pro Gly Arg Ser Arg
 1 5 10 15
 Trp Arg Trp Ser Gly Ser Val Trp Val Arg Ser Val Leu Leu Leu Leu
 20 25 30
 Gly Gly Leu Arg Ala Ser Ala Thr Ser Thr Pro Val Ser Leu Gly Ser
 35 40 45
 Ser Pro Pro Cys Arg His His Val Pro Ser Asp Thr Glu Val Ile Asn
 50 55 60
 Lys Val His Leu Lys Ala Asn His Val Val Lys Arg Asp Val Asp Glu
 65 70 75 80
 His Leu Arg Ile Lys Thr Val Tyr Asp Lys Xaa Xaa Xaa Ser Cys Ser
 85 90 95
 Leu Arg Lys Arg Ile Leu
 100

<210> 847
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 847
 Met Phe Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser
 1 5 10 15
 Ser Ser Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu
 20 25 30
 Gly Leu Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn
 35 40 45
 Gly Cys Asp Gly Ala Arg Ser His
 50 55

<210> 848
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 848

Met Gly Pro Cys Arg Ala Ser Arg Cys Leu Ser Leu Leu Val Leu Phe
1 5 10 15
Pro Pro Gly Val Ala Gly Arg Pro Ala Pro Gly Arg Leu His Pro Val
20 25 30
Pro Thr Gly Pro Leu Pro Arg Met Tyr Ser Ala Gly Ala Arg Gly Arg
35 40 45
His Gly Ala His
50

<210> 849

<211> 159

<212> PRT

<213> Homo sapiens

<400> 849

Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser
1 5 10 15
Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
20 25 30
Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Gl
35 40 45
Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
50 55 60
Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
65 70 75 80
Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
85 90 95
Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Arg Val Ser
100 105 110
Leu Ser Ala Pro Pro Pro Pro Tyr Ser Glu Val Ile Leu Lys Pro Ser
115 120 125
Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe Arg Pro
130 135 140
Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala Phe
145 150 155

<210> 850

<211> 50

<212> PRT

<213> Homo sapiens

<400> 850

Met Asp Gly Gly Pro Gly Ala Phe Ser Arg Ala Trp ValLeu Gln Ile
1 5 10 15
Pro Trp Leu Leu Leu Ser Gly Gly Asn Phe Ala Leu Cys Glu Pro Arg
20 25 30
Pro Cys Pro Ser Ala Gly His Pro Trp Gln Glu Ala Gly LeuPro Ser
35 40 45
Ser Pro
50

<210> 851

<211> 151

<212> PRT

<213> Homo sapiens

<400> 851

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
1 5 10 15
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
20 25 30
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
35 40 45
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
50 55 60
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
65 70 75 80
Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
85 90 95
Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
100 105 110
Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
115 120 125
Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
130 135 140
Asp His Ile Tyr His Pro Gln
145 150

<210> 852

<211> 522

<212> PRT

<213> Homo sapiens

<400> 852

```
Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
 1              5              10              15

Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
      20              25              30

Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
      35              40              45

Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
      50              55              60

Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
      65              70              75              80

Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser
      85              90              95

Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln
      100             105             110

Thr Ser Met Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala
      115             120             125

Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln
      130             135             140

Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gl
      145             150             155             160

Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu
      165             170             175

Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala As Cys
      180             185             190

Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu
      195             200             205

Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met
      210             215             220

Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His
      225             230             235             240

Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly
      245             250             255

Asn Leu Ile Val Val Asn Ala Thr Leu Lys Ile Asn Asn Glu Ile Arg
      260             265             270

Ser Val Lys Arg Leu Gln Leu Leu Pro Glu Ser Phe Ile Cys Lys Glu
      275             280             285
```

Lys Leu Gly Glu Asn Val Ala Asn Ile Tyr Lys Asp Leu Gln Lys Leu
 290 295 300
 Ser Arg Leu Phe Lys Asp Gln Leu Val Tyr Pro Leu Leu Ala Phe Thr
 305 310 315 320
 Arg Gln Ala Leu Asn Leu Pro Asp Val Phe Gly Leu Val Val Leu Pro
 325 330 335
 Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp Val Arg Ser Val
 340 345 350
 Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr Ala Ser Asn Asp
 355 360 365
 Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe Arg Asp Asn Thr
 370 375 80
 Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr Arg Lys Arg His
 385 390 395 400
 Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val Met Leu Leu Pro
 405 410 415
 Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro Leu His Pro Arg
 420 425 430
 Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile Gly Gly Glu Tyr
 435 440 445
 Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro Ile Ser Ser Leu
 450 455 460
 Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro Pro Leu Arg Pro
 465 470 475 480
 Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn Pro Ile Leu Pro
 485 490 495
 Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg Pro Ser Arg Gly
 500 505 510
 Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
 515 520

<210> 853
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 853
 Met Leu Val Ser Leu Ile Ile Cys Leu Leu Leu Asp Leu Leu Asn Gln
 1 5 10 15

Pro Ser Leu Leu Arg Asp Leu Ile Leu Lys Gln His Thr Gly Asn Pro
 20 25 30

His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly
 35 40 45

<210> 854
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 854
 Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg
 35 40 45

Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Pro Trp Gly His Gly
 50 55 60

Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu
 65 70 75 80

Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser Thr
 85 90 95

Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu
 100 105 110

Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp Arg
 115 120 125

Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe
 130 135 140

Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn
 145 150 155 160

Leu Pro Met Cys Arg Glu Asp Asp
 165

<210> 855
 <211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)

<223> Xaa equals any of the naturally occurring amino acids

<400> 855

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15
Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30
Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
35 40 45
Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
50 55 60
Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Asn Gly Ala Ala Leu
65 70 75 80
Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95
Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
100 105 110
Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
115 120 125
Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Asn Gly Glu
130 135 140
Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145 150 155 160
Ser Arg Asn Gly Leu Val Gly Cys
165

<210> 856

<211> 43

<212> PRT

<213> Homo sapiens

<400> 856

Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr
1 5 10 15
Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val
20 25 30
Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys
35 40

<210> 857

<211> 187

<212> PRT
 <213> Homo sapiens

<400> 857

```

Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Bu Leu Trp Ala Ala
 1          5          10          15

Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
          20          25          30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gy Ser Val Ser
          35          40          45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50          55          60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65          70          75          80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
          85          90          95

Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
100          105          110

Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
115          120          125

Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
130          135          140

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
145          150          155          160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
          165          170          175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
180          185

```

<210> 858
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 858

```

Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met LysSer
 1          5          10          15

Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp
          20          25          30

Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser
          35          40          45

```

Lys Phe Ile Ser
50

<210> 859
<211> 40
<212> PRT
<213> Homo sapiens

<400> 859
Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
1 5 10 15
Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser
20 25 30
Val Ile Thr Asp Asn Leu Cys Leu
35 40

<210> 860
<211> 346
<212> PRT
<213> Homo sapiens

<400> 860
Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
1 5 10 15
Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
20 25 30
Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
35 40 45
Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
50 55 60
Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
65 70 75 80
Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
85 90 95
His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
100 105 110
Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
115 120 125
Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
130 135 140
Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
145 150 155 160

Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
 165 170 175
 Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
 180 185 190
 Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
 195 200 205
 Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
 210 215 220
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 255
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
 305 310 315 320
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
 325 330 335
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu
 340 345

<210> 861
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 861
 Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr
 1 5 10 15
 Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu
 20 25 30
 Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr

<210> 863
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 863

```

Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1             5             10             15

Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
      20             25             30

Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
      35             40             45

Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
      50             55             60

Asn Ser Thr Asn His Val Ala Leu Arg Asp Thr Gly Asn Gln Leu Ile
      65             70             75             80

Val Thr Met Ser Cys Leu Thr Lys Glu Asp Thr Gly Trp Tyr Trp Cys
      85             90             95

Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
      100            105            110

Ile Val Thr Asp Asp Lys Gly Thr Leu Ala Asn Asp Phe Trp Ser Gly
      115            120            125

Lys Asp Leu Ser Gly Asn Lys Thr Arg Ser Cys Lys Ala Pro Lys Val
      130            135            140

Val Arg Lys Ala Asp Arg Ser Arg Thr Ser Ile Leu Ile Ile Cys Ile
      145            150            155            160

Leu Ile Thr Gly Leu Gly Ile Ile Ser Val Ile Ser His Leu Thr Lys
      165            170            175

Arg Arg Arg Ser Gln Arg Asn Arg Arg Val Gly Asn Thr Leu Lys Pro
      180            185            190

Phe Ser Arg Val Leu Thr Pro Lys Glu Met Ala Pro Thr Glu Gln Met
      195            200            205

```

<210> 864
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 864

Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
1 5 10 15
Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
20 25 30
Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Cys
35 40 45
Leu Leu Ala
50

<210> 865

<211> 118

<212> PRT

<213> Homo sapiens

<400> 865

Met Cys Tyr Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile
1 5 10 15
His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys
20 25 30
Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly
35 40 45
Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn
50 55 60
Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile
65 70 75 80
Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr
85 90 95
Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Ser
100 105 110
Val Gly Phe Gly Lys Cys
115

<210> 866

<211> 169

<212> PRT

<213> Homo sapiens

<400> 866

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
1 5 10 15

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
 20 25 30
 Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
 35 40 45
 Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
 50 55 60
 Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
 65 70 75 80
 Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
 85 90 95
 Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
 100 105 110
 Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
 115 120 125
 Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
 130 135 140
 Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
 145 150 155 160
 Met Gln Thr Gly Ser Pro Ala Ser Thr
 165

<210> 867
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 867
 Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
 1 5 10 15
 Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln
 20 25 30
 Tyr Val Ala Gly Cys Ser Ser Ser Trp Glu Gly Lys Gln Trp Asn
 35 40 45

<210> 868
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 868
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
 1 5 10 15

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
20 25 30
Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
35 40 45
Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
50 55 60
Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
65 70 75 80
Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
85 90 95
Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
100 105 110
Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
115 120 125
Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
130 135 140
Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
145 150 155 160
Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
165 170 175
Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro
180 185 190
Gly Cys Thr Ala Ala Pro Cys His Ala Ala His
195 200

<210> 869
<211> 123
<212> PRT
<213> Homo sapiens

<400> 869
Met His Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys Pro Ser
1 5 10 15
Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu Asn Ile
20 25 30
Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg Cys Tyr
35 40 45
Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe Gln Tyr
50 55 60

Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly Leu Thr
 65 70 75 80
 Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe Asp Ser
 85 90 95
 Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala
 100 105 110
 Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
 115 120

<210> 870
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 870
 Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1 5 10 15
 Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Tyr Pro Arg
 20 25 30
 Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
 35 40 45
 Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr
 50 55 60
 Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala
 65 70 75 80
 Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser
 85 90

<210> 871
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 871
 Leu Gly Ser Leu Ser Thr Ala Pro Ser Ser Ala Leu Pro Thr Leu Gly
 1 5 10 15
 Ala Arg Arg Thr Arg Ser Lys
 20

<210> 872
 <211> 60
 <212> PRT

<213> Homo sapiens

<400> 872

Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
1 5 10 15
His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
20 25 30
Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
35 40 45
Arg Thr Leu Thr Ser Pro Arg Thr Gly Ser Leu Phe
50 55 60

<210> 873

<211> 173

<212> PRT

<213> Homo sapiens

<400> 873

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
1 5 10 15
Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
20 25 30
Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
35 40 45
Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
50 55 60
Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65 70 75 80
Arg Pro Glu Glu Pro Gly His Cys Val Ala Glu Ser Glu Val Val Lys
85 90 95
Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
100 105 110
His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
115 120 125
Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
130 135 140
Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
145 150 155 160
His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu
165 170

<210> 874
 <211> 210
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 874
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly
 130 135 140
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160
 Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu
 165 170 175
 Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His
 180 185 190
 Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser
 195 200 205
 Gly Arg

210

<210> 875
<211> 99
<212> PRT
<213> Homo sapiens

<400> 875
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg AlaPro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly IleGln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
85 90 95
Pro Gly Asn

<210> 876
<211> 245
<212> PRT
<213> Homo sapiens

<400> 876
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 877
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 877
 Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
 1 5 10 15
 Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
 20 25 30
 Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
 35 40 45
 His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly
 50 55 60
 Gly Asp Glu Pro Leu Xaa Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu
 65 70 75 80

Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu
85 90 95

Ala Ile Tyr Arg Leu Arg Ala Val Arg
100 105

<210> 878
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring amino acids

<400> 878
Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
1 5 10 15
Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
20 25 30
Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
35 40 45
Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
50 55 60
Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
65 70 75 80
Arg Ala Val Val Val Gln Met Ala Gln
85

<210> 879
<211> 147
<212> PRT
<213> Homo sapiens

<400> 879
Met Leu Ala Gly Ala Gly Arg Pro Gly LeuPro Gln Gly Arg His Leu
1 5 10 15
Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
20 25 30

Pro Val Gln Glu Glu Lys Leu Ser Ala Ser ThrSer Asn Leu Pro Cys
 35 40 45
 Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
 50 55 60
 Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
 65 70 75 80
 Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Cys
 85 90 95
 Arg Phe Ser Phe Glu Trp Asn Asn Ala Tyr Phe Gly Ser Ser LysGly
 100 105 110
 Ala Val Val Cys Val Ala Leu Ile Phe Ala Cys Leu Val Ile Ile Arg
 115 120 125
 Gln Arg Gln Leu Asp Arg Lys Ala Leu Glu Lys Val Arg Lys Gln Ile
 130 135 140
 Glu Ser Ile
 145

<210> 880
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 880
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val
 1 5 10 15
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp
 20 25 30
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly
 35 40 45
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys
 50 55 60
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly
 65 70 75 80
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu
 85 90 95
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser
 100 105 110
 Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser
 115 120 125

<210> 881
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 881
 Leu Gly Lys Pro Trp Arg Tyr Pro Thr
 1 5

<210> 882
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 882
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1 5 10 15
 Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20 25 30
 Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35 40 45
 Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50 55 60
 Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
 65 70 75 80
 Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val
 85 90

<210> 883
 <211> 708
 <212> PRT
 <213> Homo sapiens

<400> 883
 Met Lys Asp Met Pro Leu Arg Ile His Val Leu Leu Gly Leu Ala Ile
 1 5 10 15
 Thr Thr Leu Val Gln Ala Val Asp Lys Lys Val Asp Cys Pro Arg Leu
 20 25 30
 Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser Ile Tyr Met
 35 40 45

Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu Leu Thr Phe Pro
 50 55 60
 Ala Arg Leu Pro Ala Asn Thr Gln Ile Leu Leu Leu Gln Thr Asn Asn
 65 70 75 80
 Ile Ala Lys Ile Glu Tyr Ser Thr Asp Phe Pro Val Asn Leu Thr Gly
 85 90 95
 Leu Asp Leu Ser Gln Asn Asn Leu Ser Ser Val Thr Asn Ile Asn Val
 100 105 110
 Lys Lys Met Pro Gln Leu Leu Ser Val Tyr Leu Glu Glu Asn Lys Leu
 115 120 125
 Thr Glu Leu Pro Glu Lys Cys Leu Ser Glu Leu Ser Asn Leu Gln Glu
 130 135 140
 Leu Tyr Ile Asn His Asn Leu Leu Ser Thr Ile Ser Pro Gly Ala Phe
 145 150 155 160
 Ile Gly Leu His Asn Leu Leu Arg Leu His Leu Asn Ser Asn Arg Leu
 165 170 175
 Gln Met Ile Asn Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile
 180 185 190
 Leu Met Ile Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe
 195 200 205
 Lys Pro Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu
 210 215 220
 Thr Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser
 225 230 235 240
 Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala Leu
 245 250 255
 Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn Pro Ile
 260 265 270
 Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His Leu Lys Glu
 275 280 285
 Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile Asp Ser Leu Ala
 290 295 300
 Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu Ala Thr Asn Asn Pro
 305 310 315 320
 Arg Leu Ser Tyr Ile His Pro Asn Ala Phe Phe Arg Leu Pro Lys Leu
 325 330 335
 Glu Ser Leu Met Leu Asn Ser Asn Ala Leu Ser Ala Leu Tyr His Gly
 340 345 350

Thr Ile Glu Ser Leu Pro Asn Leu Lys Glu Ile Ser Ile His Ser Asn
 355 360 365
 Pro Ile Arg Cys Asp Cys Val Ile Arg Trp Met Asn Met Asn Lys Thr
 370 375 380
 Asn Ile Arg Phe Met Glu Pro Asp Ser Leu Phe Cys Val Asp Pro Pro
 385 390 395 400
 Glu Phe Gln Gly Gln Asn Val Arg Gln Val His Phe Arg Asp Met Met
 405 410 415
 Glu Ile Cys Leu Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu
 420 425 430
 Asn Val Glu Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala
 435 440 445
 Glu Pro Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu
 450 455 460
 Leu Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr
 465 470 475 480
 Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr Cys
 485 490 495
 Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met Ile Lys
 500 505 510
 Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu Asn Ile Lys
 515 520 525
 Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser Trp Lys Ala Ser
 530 535 540
 Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr Ala Phe Val Lys Thr
 545 550 555 560
 Glu Asn Ser His Ala Ala Gln Ser Ala Arg Ile Pro Ser Asp Val Lys
 565 570 575
 Val Tyr Asn Leu Thr His Leu Asn Pro Ser Thr Glu Tyr Lys Ile Cys
 580 585 590
 Ile Asp Ile Pro Thr Ile Tyr Gln Lys Asn Arg Lys Lys Cys Val Asn
 595 600 605
 Val Thr Thr Lys Gly Leu His Pro Asp Gln Lys Glu Tyr Glu Lys Asn
 610 615 620
 Asn Thr Thr Thr Leu Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile
 625 630 635 640
 Gly Val Ile Cys Leu Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp
 645 650 655

Gly Gly His Ser Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala
660 665 670

Leu Gly Glu Leu Tyr Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys
675 680 685

Glu Lys Ser Thr Ser Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro
690 695 700

Thr Asn Met Ser
705

<210> 884
<211> 10
<212> PRT
<213> Homo sapiens

<400> 884
Met Gly Leu Phe Leu Phe Leu Val Ser Ser
1 5 10

<210> 885
<211> 941
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (807)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (809)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (815)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (819)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 885
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
1 5 10 15

Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
20 25 30

Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
 35 40 45
 Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
 50 55 60
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
 65 70 75 80
 Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
 85 90 95
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
 100 105 110
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
 115 120 125
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
 130 135 140
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
 145 150 155 160
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
 165 170 175
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
 180 185 190
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
 195 200 205
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
 210 215 220
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
 225 230 235 240
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
 245 250 255
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
 260 265 270
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
 275 280 285
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro
 290 295 300
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu
 305 310 315 320
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala
 325 330 335

Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala
 340 345 350
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp
 355 360 365
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe
 370 375 380
 Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe
 385 390 395 400
 Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser
 405 410 415
 His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met
 420 425 430
 Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
 435 440 445
 Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr
 450 455 460
 Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
 465 470 475 480
 Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
 485 490 495
 Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln
 500 505 510
 Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
 515 520 525
 Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
 530 535 540
 Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Ap Thr Gly
 545 550 555 560
 Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
 565 570 575
 Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Bu Ile Leu Pro
 580 585 590
 Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
 595 600 605
 Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Bu
 610 615 620
 Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile
 625 630 635 640

Asn	Asn	Ala	Phe	Gln	Leu	Val	Ser	Ile	Gly	Lys	Leu	Ser	Ile	Glu	Lys	
				645					650					655		
Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys	His	Glu	Thr	Glu	Ile	Met	Pro	
			660					665					670			
Val	Phe	Gln	Gly	Leu	Asn	Glu	Leu	Ile	Pro	Met	Tyr	Lys	Leu	Met	Glu	
		675					680					685				
Lys	Arg	Asp	Met	Asn	Glu	Val	Glu	Thr	Gln	Phe	Lys	Ala	Phe	Leu	Ile	
	690					695					700					
Arg	Leu	Leu	Arg	Asp	Leu	Ile	Asp	Lys	Gln	Thr	Trp	Thr	Asp	Glu	Gly	
705					710				715						720	
Ser	Val	Ser	Glu	Arg	Met	Leu	Arg	Ser	Glu	Leu	Leu	Leu	Leu	Ala	Cys	
				725					730					735		
Val	His	Asn	Tyr	Gln	Pro	Cys	Val	Gln	Arg	Ala	Glu	Gly	Tyr	Phe	Arg	
			740					745					750			
Lys	Trp	Lys	Glu	Ser	Asn	Gly	Asn	Leu	Ser	Leu	Pro	Val	Asp	Val	Thr	
		755					760					765				
Leu	Ala	Val	Phe	Ala	Val	Gly	Ala	Gln	Ser	Thr	Glu	Gly	Trp	Asp	Phe	
	770					775					780					
Leu	Tyr	Ser	Lys	Tyr	Gln	Phe	Ser	Leu	Ser	Ser	Thr	Glu	Lys	Ser	Gln	
785					790					795					800	
Ile	Glu	Phe	Ala	Leu	Cys	Xaa	Pro	Xaa	Asn	Lys	Glu	Lys	Leu	Xaa	Trp	
				805					810					815		
Leu	Leu	Xaa	Glu	Ser	Phe	Lys	Gly	Asp	Lys	Ile	Lys	Thr	Gln	Glu	Phe	
			820					825					830			
Pro	Gln	Ile	Leu	Thr	Leu	Ile	Gly	Arg	Asn	Pro	Val	Gly	Tyr	Pro	Leu	
		835					840					845				
Ala	Trp	Gln	Phe	Leu	Arg	Lys	Asn	Trp	Asn	Lys	Leu	Val	Gln	Lys	Phe	
	850					855					860					
Glu	Leu	Gly	Ser	Ser	Ser	Ile	Ala	His	Met	Val	Met	Gly	Thr	Thr	Asn	
865					870					875					880	
Gln	Phe	Ser	Thr	Arg	Thr	Arg	Leu	Glu	Glu	Val	Lys	Gly	Phe	Phe	Ser	
				885					890					895		
Ser	Leu	Lys	Glu	Asn	Gly	Ser	Gln	Leu	Arg	Cys	Val	Gln	Gln	Thr	Ile	
			900					905					910			
Glu	Thr	Ile	Glu	Glu	Asn	Ile	Gly	Trp	Met	Asp	Lys	Asn	Phe	Asp	Lys	
		915					920					925				
Ile	Arg	Val	Trp	Leu	Gln	Ser	Glu	Lys	Leu	Glu	Arg	Met				
	930					935					940					

<210> 886
 <211> 612
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (245)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (246)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (249)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 886
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro AlaArg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His
 85 90 95
 Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser
 100 105 110
 Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175

Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220
 Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Xaa Xaa Ser Thr Xaa Leu Glu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365
 Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380
 Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480

Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala HisLeu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu LysSer Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
 545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 887
 <211> 456
 <212> PRT
 <213> Homo sapiens

<400> 887
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His
 85 90 95
 Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser
 100 105 110
 Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser

115					120					125					
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro
130						135					140				
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile
145					150					155					160
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn
				165						170				175	
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His
			180					185						190	
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala
		195					200					205			
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr
	210					215					220				
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gln	Phe	Glu	Ile	Trp	Glu	Asn	Leu
225					230					235					240
Asp	Gly	Asn	Phe	Ser	Val	Ser	Thr	Ile	Leu	Glu	Lys	Pro	Gln	Asn	Met
				245					250					255	
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His
			260					265					270		
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser
		275					280					285			
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gln	Trp	Val	Pro	Val	Leu
	290					295					300				
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val
305					310					315					320
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Thr	Leu	His	Ile
				325					330					335	
Gly	Asp	Tyr	Asn	Met	Asp	Gly	Tyr	Pro	Asp	Ala	Leu	Val	Ile	Leu	Lys
			340					345					350		
Asn	Thr	Ser	Gly	Ser	Asn	Gln	Gln	Ala	Phe	Leu	Leu	Glu	Asn	Val	Pro
		355					360					365			
Cys	Asn	Asn	Ala	Ser	Cys	Glu	Glu	Ala	Arg	Arg	Met	Phe	Lys	Val	Tyr
	370					375					380				
Trp	Glu	Leu	Thr	Asp	Leu	Asn	Gln	Ile	Lys	Asp	Ala	Met	Val	Ala	Thr
385					390					395					400
Phe	Phe	Asp	Ile	Tyr	Glu	Asp	Gly	Ile	Leu	Asp	Ile	Val	Val	Leu	Ser
			405						410					415	
Lys	Gly	Tyr	Thr	Lys	Asn	Asp	Phe	Ala	Ile	His	Thr	Leu	Lys	Asn	Asn

420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Arg
 450 455

<210> 888
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 888
 Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu
 1 5 10 15
 Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg
 20 25 30
 Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile
 35 40 45
 Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe
 50 55 60
 Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys
 65 70 75 80
 Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro
 85 90 95
 His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln
 100 105 110
 Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly
 115 120 125
 Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp
 130 135 140
 Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
 145 150 155

<210> 889
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 889
 Phe Leu Ser Ser Trp Gln Arg Pro Ala Cys Gly Cys Gln Arg Pro Ala
 1 5 10 15

Leu Pro Leu His Leu Gly Gly Ala Glu Gln Leu Gly Pro Ser Cys Pro
 20 25 30
 Gly Gly Trp Val Gln Thr Gln Ala Glu Asp Gln Pro Trp Pro Cys Pro
 35 40 45
 Ala Ile Cys Phe His Gln Ala Val Ser Pro Pro Trp Leu Pro Phe Ser
 50 55 60
 Leu Gln Ala Lys Val Leu Leu Ile Pro Thr Pro Leu Val Phe Ala Cys
 65 70 75 80
 Pro Ala Leu Leu Phe Ala Trp Arg Val Gly Gly Ala Gln Trp Gln Gly
 85 90 95
 Ile Ser Gly Pro Trp Gly Arg Gly Asp Gly Asn Met Cys Pro Thr Ala
 100 105 110
 Pro Ser Pro Pro Pro Pro
 115

<210> 890
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Leu Ala Val Trp Val
 1 5 10 15
 Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg
 20 25 30
 Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro
 35 40 45
 Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val
 50 55

<210> 891
 <211> 109
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 891
 Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu Gly
 1 5 10 15

Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly Asp
 20 25 30
 Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser Val
 35 40 45
 Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn Thr
 50 55 60
 Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu Gly
 65 70 75 80
 His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Xaa Arg Lys
 85 90 95
 Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu
 100 105

<210> 892
 <211> 46
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 892
 Ile Asn His Val Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile
 1 5 10 15
 Leu Phe Thr Met His Ser Asn Gly Ile Phe Gly IlePhe Pro Asn Gln
 20 25 30
 Phe Pro Phe Val Gly Asn Ala Arg His Ser Leu Thr Xaa Lys
 35 40 45

<210> 893
 <211> 6
 <212> PRT
 <213> Homo sapiens

 <400> 893
 Thr Val Ala Ile Tyr Asp
 1 5

<210> 894
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 894

Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser
1 5 10

<210> 895

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring amino acids

<400> 895

Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys
1 5 10 15

Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys
20 25 30

Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile
35 40 45

Phe Ala Arg Phe Glu Asn Phe Gln
50 55

<210> 896

<211> 53

<212> PRT

<213> Homo sapiens

<400> 896

Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys
1 5 10 15

His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu
20 25 30

Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe
35 40 45

Pro Lys Arg Val Arg
50

<210> 897
<211> 566
<212> PRT
<213> Homo sapiens

<400> 897
Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
1 5 10 15
Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
20 25 30
Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
35 40 45
Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val
50 55 60
Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp
65 70 75 80
Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly
85 90 95
Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu
100 105 110
Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys
115 120 125
Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn
130 135 140
Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu
145 150 155 160
Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly
165 170 175
His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys
180 185 190
Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg
195 200 205
His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro
210 215 220
Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Leu Phe Tyr
225 230 235 240
Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg

245										250					255				
Leu	Gln	Tyr	Ser	Arg	Ile	Val	Gly	Gly	Trp	Asp	Leu	Asn	Pro	Arg	Ala				
			260					265					270						
Leu	Leu	Ser	Ser	Leu	Ser	Gly	Leu	Val	Leu	Leu	Asn	Ala	Pro	Val	Val				
		275					280					285							
Ala	Met	Thr	Gln	Gly	Pro	His	Asp	Val	His	Val	Gln	Ile	Glu	Thr	Ser				
	290					295					300								
Pro	Pro	Ala	Arg	Asn	Leu	Lys	Val	Leu	Lys	Ala	Asp	Val	Val	Leu	Leu				
305					310					315					320				
Thr	Ala	Ser	Gly	Pro	Ala	Val	Lys	Arg	Ile	Thr	Phe	Ser	Pro	Pro	Leu				
				325					330					335					
Pro	Arg	His	Met	Gln	Glu	Ala	Leu	Arg	Arg	Leu	His	Tyr	Val	Pro	Ala				
			340					345					350						
Thr	Lys	Val	Phe	Leu	Ser	Phe	Arg	Arg	Pro	Phe	Trp	Arg	Glu	Glu	His				
		355					360					365							
Ile	Glu	Gly	Gly	His	Ser	Asn	Thr	Asp	Arg	Pro	Ser	Arg	Met	Ile	Phe				
	370					375					380								
Tyr	Pro	Pro	Pro	Arg	Glu	Gly	Ala	Leu	Leu	Leu	Ala	Ser	Tyr	Thr	Trp				
385					390					395					400				
Ser	Asp	Ala	Ala	Ala	Ala	Phe	Ala	Gly	Leu	Ser	Arg	Glu	Glu	Ala	Leu				
				405					410					415					
Arg	Leu	Ala	Leu	Asp	Asp	Val	Ala	Ala	Leu	His	Gly	Pro	Val	Val	Arg				
			420					425					430						
Gln	Leu	Trp	Asp	Gly	Thr	Gly	Val	Val	Lys	Arg	Trp	Ala	Glu	Asp	Gln				
		435					440					445							
His	Ser	Gln	Gly	Gly	Phe	Val	Val	Gln	Pro	Pro	Ala	Leu	Trp	Gln	Thr				
	450					455					460								
Glu	Lys	Asp	Asp	Trp	Thr	Val	Pro	Tyr	Gly	Arg	Ile	Tyr	Phe	Ala	Gly				
465					470					475					480				
Glu	His	Thr	Ala	Tyr	Pro	His	Gly	Trp	Val	Glu	Thr	Ala	Val	Lys	Leu				
				485					490					495					
Leu	Arg	Ala	Ala	Ile	Lys	Ile	Asn	Ser	Arg	Lys	Gly	Pro	Ala	Ser	Asp				
			500					505					510						
Thr	Ala	Ser	Pro	Glu	Gly	His	Ala	Ser	Asp	Met	Glu	Gly	Gln	Gly	His				
		515					520					525							
Val	His	Gly	Val	Ala	Ser	Ser	Pro	Ser	His	Asp	Leu	Ala	Lys	Glu	Glu				
	530					535					540								
Gly	Ser	His	Pro	Pro	Val	Gln	Gly	Gln	Leu	Ser	Leu	Gln	Asn	Thr	Thr				

Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg His Thr Leu Leu Glu
 165 170 175
 Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro Ala Val Gln Leu Leu
 180 185 190
 Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr Leu Ser Phe Ala Glu
 195 200 205
 Ala Leu Arg Ala Xaa Ser Cys Leu Ser Asp Arg Leu Gln Tyr Ser Arg
 210 215 220
 Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala Leu Leu Ser Ser Leu
 225 230 235 240
 Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val Ala Met Thr Gln Gly
 245 250 255
 Pro His Asp Val His Val Gln Ile Glu Thr Ser Pro Pro Ala Arg Asn
 260 265 270
 Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu Thr Ala Ser Gly Pro
 275 280 285
 Ala Val Lys Arg Ile Thr Phe Ser Pro Arg Cys Pro Ala Thr Cys Arg
 290 295 300
 Arg Arg Cys Gly Gly Cys Thr Thr Cys Arg Pro Pro Arg Cys Ser
 305 310 315

<210> 899
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 899
 Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val
 1 5 10 15
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly
 20 25 30
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu
 35 40 45

<210> 900
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (7)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 900
 Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His
 1 5 10 15

 Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His
 20 25 30

 Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile
 35 40 45

 Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly
 50 55 60

 <210> 901
 <211> 14
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 901
 Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa
 1 5 10

<210> 902
 <211> 107
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 902

Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe
1 5 10 15
Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr
20 25 30
Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro
35 40 45
Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly
50 55 60
Ala Xaa Leu Thr Pro Arg Arg Ala Asn His Leu Arg Cys Gly Val
65 70 75 80
Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn
85 90 95
Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu
100 105

<210> 903

<211> 127

<212> PRT

<213> Homo sapiens

<400> 903

Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu
1 5 10 15
Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr
20 25 30
Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg
35 40 45
Ser Ser His Ser Pro Arg Gly Pro Gly Gly His Pro Ala Leu Arg Gln
50 55 60
Arg Leu Pro Cys Arg Arg Gly Glu Pro Glu Thr Ala Leu Cys Ser Ser
65 70 75 80
Ala Pro Gly Ala Gly Phe Ala Glu Pro Pro Gln Lys Ala Ser Pro Gly
85 90 95
Trp Gly Pro Pro Ser Arg Gly Pro Gln Gly Asp Arg Ser Gln Gly Glu
100 105 110
Trp Leu Pro Ala Leu Gly Thr Pro Cys Gly Gly Pro Asp Asp Ser
115 120 125

<210> 904

<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring amino acids

<400> 904
Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu
1 5 10 15
Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Xaa Tyr
20 25 30
Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg
35 40 45
Ser Ser His Ser Pro Arg Thr Trp Xaa Thr Pro Ser Ser Gln Thr Lys
50 55 60
Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys
65 70 75 80
Thr Arg Ser Arg Phe Cys Gly Thr Pro Met
85 90

<210> 905
<211> 308
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring amino acids

<400> 905
Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
1 5 10 15
Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
20 25 30

Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
 35 40 45
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
 50 55 60
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
 65 70 75 80
 Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp
 85 90 95
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
 100 105 110
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
 115 120 125
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
 130 135 140
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
 145 150 155 160
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
 165 170 175
 Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val
 210 215 220
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn
 225 230 235 240
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly
 245 250 255
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys
 260 265 270
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala
 275 280 285
 Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro
 290 295 300
 Asp Cys Asp Cys
 305

<210> 906

<211> 55
 <212> PRT
 <213> Homo sapiens

<400> 906
 Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met
 1 5 10 15
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
 20 25 30
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser
 35 40 45
 Val Ser Asn Thr Ile Cys Ile
 50 55

<210> 907
 <211> 214
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (199)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 907
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95

Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val
 195 200 205
 Gly Ser Ala Gln Cys Xaa
 210

<210> 908
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 908
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr
 20 25 30
 Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro
 35 40

<210> 909
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 909
 Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu
 1 5 10 15
 Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu
 20 25 30
 Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring amino acids

<400> 912

Met	Phe	Val	Gly	Leu	Met	Ala	Phe	Leu	Leu	Ser	Phe	Tyr	Leu	Ile	Phe
1				5					10					15	
Thr	Asn	Glu	Gly	Arg	Ala	Leu	Lys	Thr	Ala	Thr	Ser	Leu	Ala	Glu	Gly
			20					25					30		
Leu	Ser	Leu	Val	Val	Ser	Pro	Asp	Ser	Ile	His	Ser	Val	Ala	Pro	Glu
		35					40					45			
Asn	Glu	Gly	Arg	Leu	Val	His	Ile	Ile	Gly	Ala	Leu	Arg	Thr	Ser	Lys
	50					55						60			
Leu	Leu	Ser	Asp	Pro	Asn	Tyr	Gly	Val	His	Leu	Pro	Ala	Val	Lys	Leu
65					70					75					80
Arg	Arg	His	Val	Glu	Met	Tyr	Gln	Trp	Val	Glu	Thr	Glu	Glu	Ser	Arg
			85						90					95	
Glu	Tyr	Thr	Glu	Asp	Gly	Gln	Val	Lys	Lys	Glu	Thr	Arg	Tyr	Ser	Tyr
			100					105					110		
Asn	Thr	Glu	Trp	Arg	Ser	Glu	Ile	Ile	Asn	Ser	Lys	Asn	Phe	Asp	Arg
		115					120					125			
Glu	Ile	Gly	His	Lys	Asn	Pro	Ser	Ala	Met	Ala	Val	Glu	Ser	Phe	Xaa
	130					135					140				
Ala	Thr	Ala	Pro	Phe	Val	Gln	Ile	Gly	Arg	Phe	Phe	Leu	Ser	Ser	Gly
145					150					155					160
Leu	Ile	Asp	Lys	Val	Asp	Asn	Phe	Lys	Ser	Leu	Ser	Leu	Ser	Lys	Leu
			165						170					175	
Glu	Asp	Pro	His	Val	Asp	Ile	Ile	Arg	Arg	Gly	Asp	Phe	Phe	Tyr	His
			180					185					190		
Ser	Glu	Asn	Pro	Lys	Tyr	Pro	Glu	Xaa	Gly	Asp	Leu	Arg	Val	Ser	Phe
		195					200					205			
Ser	Tyr	Ala	Gly	Leu	Ser	Gly	Asp	Asp	Pro	Asp	Leu	Gly	Pro	Ala	His
	210					215					220				
Val	Val	Thr	Val	Ile	Ala	Arg	Gln	Arg	Gly	Asp	Gln	Leu	Val	Pro	Phe
225					230					235					240
Ser	Thr	Lys	Ser	Gly	Asp	Thr	Leu	Leu	Leu	Leu	His	His	Gly	Asp	Phe
			245					250					255		
Ser	Ala	Glu	Glu	Val	Phe	His	Arg	Glu	Leu	Arg	Ser	Asn	Ser	Met	Lys

260	265	270
Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu		
275	280	285
Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val		
290	295	300
Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val		
305	310	315
Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr		
325	330	335
Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile		
340	345	350
Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu		
355	360	365

<210> 913
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 913
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro ArgHis
 20 25 30
 Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
 35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro
 50 55 60
 His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys
 65 70 75 80
 Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe
 85 90 95
 Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe
 100 105

<210> 914

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30

Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
 35 40 45

Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
 50 55 60

Pro Pro Leu Xaa Ser Asp Pro Lys Arg
 65 70

<210> 915
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 915
 Met Ser Lys Arg Ser Ala Ser Phe Ile Leu Leu Pro Leu Leu Phe Leu
 1 5 10 15
 Lys Gly Ser Phe Ala Lys Leu Asn Ala Arg Ile Ser Asp Cys Leu Glu
 20 25 30
 Glu Arg Tyr Cys His Asn Leu Trp Met Val Phe Gln Gly Cys Val Ile
 35 40 45
 Thr Glu Leu His Leu Ser Arg Met Ser Lys Thr Leu Ser Ser Leu Cys
 50 55 60
 Tyr Asp Phe Val Ile Asn Val Tyr Ile Phe Phe Lys Phe Leu Asp Ile
 65 70 75 80
 Thr

<210> 916
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 916
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110

Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
 165 170 175
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu
 180 185 190
 Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 917
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 917

Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160

Gly Met Ala Met Val Pro Pro Ser Trp Ala Ser Leu Gly Ile Thr Tyr
165 170 175
Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro Lys Arg Ser Ser Arg Lys
180 185 190
Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn Lys
195 200

<210> 918
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring amino acids

<400> 918
Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
1 5 10 15
Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
20 25 30
Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
35 40 45
Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
50 55 60
Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
65 70 75 80

Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp
85 90 95
Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr
100 105 110
Phe Ser Ser Gln Val Leu Leu Pro Leu Leu
115 120

<210> 919
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring amino acids

<400> 919
Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
1 5 10 15
Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu Glu Ser Tyr Ser
20 25 30
Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
35 40 45
Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys
50 55 60
Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
65 70 75 80
Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
85 90 95
Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
100 105 110
Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
115 120 125
Cys Asp Ala Lys Phe Arg Trp Cys Leu Xaa Ser Ile Cys Ser Asp Leu
130 135 140
Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu
145 150 155 160
Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
165 170 175
Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu
180 185 190

Glu Leu

<210> 920
<211> 67
<212> PRT
<213> Homo sapiens

<400> 920
Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val
1 5 10 15
Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro
20 25 30
Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys
35 40 45
His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser
50 55 60
Asn Val Pro
65

<210> 921
<211> 170
<212> PRT
<213> Homo sapiens

<400> 921
Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
1 5 10 15
Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly ValAla Pro Ile
20 25 30
Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
35 40 45
Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
50 55 60
Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
65 70 75 80
Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
85 90 95
Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
100 105 110
Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp

	115		120		125
Tyr	Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu				
	130		135		140
Glu	Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp				
145		150		155	160
Ile	Lys Trp Ala Ser Arg Trp Asp Thr Tyr				
	165		170		

<210> 922
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 922
His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His
1 5 10 15
Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp
20 25 30
Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln
35 40 45
Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly
50 55 60
Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg
65 70 75 80
Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp
85 90 95
Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu Gly Lys
100 105 110
Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser Ala Val
115 120 125
His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu Leu Leu
130 135 140
Arg Leu Pro Lys Ala Ala Ile
145 150

<210> 923
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring amino acids

<400> 923

```
Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1           5           10           15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
      20           25           30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
      35           40           45

Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln
      50           55           60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
      65           70           75           80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
      85           90           95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
      100          105          110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
      115          120          125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
      130          135          140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
      145          150          155          160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Asn Gln Ser
      165          170          175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
      180          185          190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Tyr Ser
      195          200          205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
      210          215          220

Lys Ala His Asn Glu Val Gly Thr Ala Asn Val Met
      225          230          235
```

<210> 924

<211> 11

<212> PRT

<213> Homo sapiens

<400> 924

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val
1 5 10

<210> 925

<211> 302

<212> PRT

<213> Homo sapiens

<400> 925

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
1 5 10 15

Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
20 25 30

Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
35 40 45

Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
50 55 60

Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Asp Leu Ala Glu Val
65 70 75 80

Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
85 90 95

Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
100 105 110

Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
115 120 125

Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
130 135 140

Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
145 150 155 160

Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
165 170 175

Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
180 185 190

Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
195 200 205

Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
210 215 220

Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
225 230 235 240

Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
 245 250 255
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
 260 265 270
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
 275 280 285
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg
 290 295 300

<210> 926

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 926

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
 1 5 10 15
 Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
 20 25 30
 Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
 35 40 45
 Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
 50 55 60
 Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Xaa Leu Ala Glu Val
 65 70 75 80
 Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
 85 90 95
 Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
 100 105 110
 Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
 115 120 125
 Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
 130 135 140
 Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
 145 150 155 160
 Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
 165 170 175

Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
180 185 190
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
195 200 205
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
210 215 220

<210> 927
<211> 108
<212> PRT
<213> Homo sapiens

<400> 927
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30
Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 928
<211> 130
<212> PRT
<213> Homo sapiens

<400> 928
Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly
1 5 10 15
Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val
20 25 30
Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr

	100		105		110
Pro Gly Ala Leu Val Thr Trp Thr Pro Gly					
	115		120		

<210> 930
 <211> 223
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 930
 Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr
 1 5 10 15
 Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu
 20 25 30
 Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
 35 40 45
 Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu
 50 55 60
 Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu
 65 70 75 80
 Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser
 85 90 95
 Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala
 100 105 110
 Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile
 115 120 125
 Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu
 130 135 140
 Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu
 145 150 155 160
 Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu
 165 170 175
 Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln
 180 185 190
 Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly
 195 200 205

Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro
 210 215 220

<210> 931
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 931
 Ala Trp Phe Leu Val Lys Pro Glu
 1 5

<210> 932
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 932
 Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn
 1 5 10 15
 Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu
 20 25 30
 Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr
 35 40 45
 Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala
 50 55 60
 Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu
 65 70 75 80
 Leu Ser Tyr

<210> 933
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 933
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45

Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240
 Gly Tyr Gln

<210> 934

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring amino acids

<400> 934

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15
 Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu
 65 70 75 80
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe
 85 90 95
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met
 100 105 110
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln
 115 120 125
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val
 130 135 140
 Leu His Val Ser Trp Xaa Asp Ala Arg Ala
 145 150

<210> 935
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 935
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Trp Lys Ala
 35 40 45
 Trp Phe Ile Ala Gly Ile Phe Leu Leu
 50 55

<210> 936
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 936

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
1 5 10 15
Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
20 25 30
Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
35 40 45
Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
50 55 60
Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
65 70 75 80
Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile
85 90 95
Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
100 105

<210> 937

<211> 37

<212> PRT

<213> Homo sapiens

<400> 937

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
1 5 10 15
Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser
20 25 30
Phe Val Cys Ser Cys
35

<210> 938

<211> 46

<212> PRT

<213> Homo sapiens

<400> 938

Met Lys Ser Gln Cys Tyr Ser Pro Ser Tyr Phe Ala Phe Phe Cys Leu
1 5 10 15
Val Phe Phe Gln Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His
20 25 30
Val Leu Cys Arg Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys
35 40 45

<210> 939
 <211> 442
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (364)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 939
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr
 1 5 10 15

 Ser Ser Arg Gly Ala Gly Cys Cys Cys Cys Trp Ala Arg Trp Arg Arg
 20 25 30

 Ala Val His Thr Ala Arg Gly Leu Arg Gly Arg Pro Arg Arg Gln Leu
 35 40 45

 Leu Arg Pro Leu Arg Pro Ala Gln Gly Leu Ala Pro Gly Arg His Arg
 50 55 60

 Leu Arg Pro Ala Val Leu Pro Leu His Leu Gln Pro Leu Pro Gly Leu
 65 70 75 80

 Trp Gly Gly His Ala Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro Phe
 85 90 95

 Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu
 100 105 110

 Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu Leu
 115 120 125

 Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr
 130 135 140

 Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val Glu
 145 150 155 160

 Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp Val
 165 170 175

 Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala Val
 180 185 190

 Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro His
 195 200 205

 Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr Ala
 210 215 220

 Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe Tyr
 225 230 235 240

Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu Ser
 245 250 255
 Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro Lys
 260 265 270
 Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe Leu
 275 280 285
 Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn Met
 290 295 300
 Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp Val
 305 310 315 320
 Ala Leu Ala Glu Gly Leu Gly Val Ab Val Tyr Ala Ala Ala Val Leu
 325 330 335
 Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met Thr
 340 345 350
 Ala Asp Leu Ile Gly Pro His Thr Asn Se Gly Xaa Phe Val Tyr Gly
 355 360 365
 Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met Ala
 370 375 380
 Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Aa Cys
 385 390 395 400
 Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val Gly
 405 410 415
 Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pw Thr Arg
 420 425 430
 Leu Arg Arg Trp Asp Arg Asp Ala Arg Pro
 435 440

<210> 940

<211> 309

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring amino acids

<400> 940

Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg
1 5 10 15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg
20 25 30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln
35 40 45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly
50 55 60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg
65 70 75 80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala
85 90 95

Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala
100 105 110

Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn
115 120 125

Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu
130 135 140

Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly
145 150 155 160

Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg
165 170 175

Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala
180 185 190

Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala
195 200 205

Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala
210 215 220

Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val
225 230 235 240

Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val
245 250 255

Met Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg
260 265 270

Ala Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly

275 280 285
 Val Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro
 290 295 300
 Thr Arg Leu Arg Arg
 305

<210> 941
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 941
 Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg
 1 5 10 15
 Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg
 20 25 30
 Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln
 35 40 45
 Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly
 50 55 60
 Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg
 65 70 75 80
 Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala
 85 90 95
 Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala
 100 105 110
 Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn
 115 120 125
 Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu
 130 135 140

Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly
 145 150 155 160
 Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg
 165 170 175
 Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala
 180 185 190
 Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala
 195 200 205
 Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala
 210 215 220
 Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys
 225 230 235 240
 Thr Ala Pro

<210> 942
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 942
 Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly
 1 5 10 15
 Leu Leu Val Leu Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Aa Leu
 20 25 30
 Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro
 35 40 45
 Pro Leu Ala Arg Leu Ala Leu Leu Ala Ala Ser Gly Gly Gln Cys Pro
 50 55 60
 Glu Val Arg Arg Arg Gly Arg Cys Arg Pro Gly Ala Gly Ala Gly Ala
 65 70 75 80
 Ser Ala Gly Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln Arg
 85 90 95
 Leu Arg Ile Ser Arg Arg Ala Ser Trp Arg Ser Cys Cys Ala Ser Gly
 100 105 110
 Ala Pro Pro Ala Thr Leu Ile Arg Leu Trp Ala Trp Thr Thr Thr Pro
 115 120 125
 Thr Arg Leu Gln Arg Ser Ser Leu Ala Leu Cys Ser Ala Pro Ala Leu
 130 135 140

Thr Leu Pro Pro
145

<210> 943
<211> 80
<212> PRT
<213> Homo sapiens

<400> 943
Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
1 5 10 15
Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
20 25 30
Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
35 40 45
Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
50 55 60
Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
65 70 75 80

<210> 944
<211> 47
<212> PRT
<213> Homo sapiens

<400> 944
Ile Leu Lys Ser Glu Pro Lys Leu Val Ser Phe Ile Asn Ile Leu Gly
1 5 10 15
Lys Glu Glu Arg Lys Lys Glu Gly Gly Arg Glu Arg Lys Lys Glu Arg
20 25 30
Lys Lys Glu Arg Lys Lys Glu Arg Lys Lys Lys Lys Lys Asn Ser
35 40 45

<210> 945
<211> 89
<212> PRT
<213> Homo sapiens

<400> 945
Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
1 5 10 15

Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30
 Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Asn
 65 70 75 80
 Ser Gln Leu Lys Leu Leu Gln Cys Leu
 85

<210> 946
 <211> 486
 <212> PRT
 <213> Homo sapiens

<400> 946
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60
 Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe
 100 105 110
 Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly
 115 120 125
 Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp
 130 135 140
 Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys
 145 150 155 160
 Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn
 165 170 175
 Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser

180						185						190					
Leu	Asp	Asn	Ser	Leu	Ser	Ile	Leu	Arg	Thr	Phe	Tyr	Met	Leu	Gly	Val		
		195					200					205					
Arg	Tyr	Leu	Thr	Leu	Thr	His	Thr	Cys	Asn	Thr	Pro	Trp	Ala	Glu	Ser		
	210					215					220						
Ser	Ala	Lys	Gly	Val	His	Ser	Phe	Tyr	Asn	Asn	Ile	Ser	Gly	Leu	Thr		
	225				230					235					240		
Asp	Phe	Gly	Glu	Lys	Val	Val	Ala	Glu	Met	Asn	Arg	Leu	Gly	Met	Met		
				245					250					255			
Val	Asp	Leu	Ser	His	Val	Ser	Asp	Ala	Val	Ala	Arg	Arg	Ala	Leu	Glu		
			260					265					270				
Val	Ser	Gln	Ala	Pro	Val	Ile	Phe	Ser	His	Ser	Ala	Ala	Arg	Gly	Val		
		275					280					285					
Cys	Asn	Ser	Ala	Arg	Asn	Val	Pro	Asp	Asp	Ile	Leu	Gln	Leu	Leu	Lys		
	290					295					300						
Lys	Asn	Gly	Gly	Val	Val	Met	Val	Ser	Leu	Ser	Met	Gly	Val	Ile	Gln		
	305				310					315					320		
Cys	Asn	Pro	Ser	Ala	Asn	Val	Ser	Thr	Val	Ala	Asp	His	Phe	Asp	His		
				325					330					335			
Ile	Lys	Ala	Val	Ile	Gly	Ser	Lys	Phe	Ile	Gly	Ile	Gly	Gly	Asp	Tyr		
		340						345					350				
Asp	Gly	Ala	Gly	Lys	Phe	Pro	Gln	Gly	Leu	Glu	Asp	Val	Ser	Thr	Tyr		
		355					360					365					
Pro	Val	Leu	Ile	Glu	Glu	Leu	Leu	Ser	Arg	Gly	Trp	Ser	Glu	Glu	Glu		
	370					375					380						
Leu	Gln	Gly	Val	Leu	Arg	Gly	Asn	Leu	Leu	Arg	Val	Phe	Arg	Gln	Val		
	385				390					395					400		
Glu	Lys	Val	Gln	Glu	Glu	Asn	Lys	Trp	Gln	Ser	Pro	Leu	Glu	Asp	Lys		
			405						410					415			
Phe	Pro	Asp	Glu	Gln	Leu	Ser	Ser	Ser	Cys	His	Ser	Asp	Leu	Ser	Arg		
			420					425					430				
Leu	Arg	Gln	Arg	Gln	Ser	Leu	Thr	Ser	Gly	Gln	Glu	Leu	Thr	Glu	Ile		
		435					440					445					
Pro	Ile	His	Trp	Thr	Ala	Lys	Leu	Pro	Ala	Lys	Trp	Ser	Val	Ser	Glu		
	450					455					460						
Ser	Ser	Pro	His	Met	Ala	Pro	Val	Leu	Ala	Val	Val	Ala	Thr	Phe	Pro		
	465				470					475					480		
Val	Leu	Ile	Leu	Trp	Leu												

485

<210> 947
<211> 151
<212> PRT
<213> Homo sapiens

<400> 947
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
1 5 10 15
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Le Lys Met Gln Val
20 25 30
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
35 40 45
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Le Pro
50 55 60
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
65 70 75 80
Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
85 90 95
Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
100 105 110
Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
115 120 125
Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
130 135 140
Asp His Ile Tyr His Pro Gln
145 150

<210> 948
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring amino acids

<400> 948
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
1 5 10 15
Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr

			20					25						30					
Leu	Ser	Cys	Phe	Leu	His	Glu	Arg	Gln	Pro	Glu	Leu	Gln	Ser	Val	Cys				
		35					40					45							
Ile	Ser	Ala	Ala	Tyr	Val	Leu	Ala	Pro	Leu	Gln	Asn	Pro	Val	Ser	Ser				
	50					55					60								
Leu																			
65																			

<210> 949
 <211> 299
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 949																			
Gly	Gly	Glu	Glu	Glu	Gly	Glu	Glu	Gly	Ala	Glu	Ile	Ser	Gly	Leu	Gly				
1				5				10						15					
Ala	Gly	Arg	Arg	Ser	Ala	Pro	Ile	Ala	Val	Gly	Leu	Gly	Phe	Leu	Gly				
			20					25					30						
Val	Gly	Gly	Arg	Gly	Gly	Ser	Asp	Met	Glu	Ala	Asn	Gly	Ser	Gln	Gly				
		35					40					45							
Thr	Ser	Gly	Ser	Ala	Asn	Asp	Ser	Gln	His	Asp	Pro	Gly	Lys	Met	Phe				
	50					55					60								
Ile	Gly	Gly	Leu	Ser	Trp	Gln	Thr	Ser	Pro	Asp	Ser	Leu	Arg	Asp	Tyr				
65					70					75				80					
Phe	Ser	Lys	Phe	Gly	Glu	Ile	Arg	Glu	Cys	Met	Val	Met	Arg	Asp	Pro				
			85					90						95					
Thr	Thr	Lys	Arg	Ser	Arg	Gly	Phe	Gly	Phe	Val	Thr	Phe	Ala	Asp	Pro				
		100					105						110						
Ala	Ser	Val	Asp	Lys	Val	Leu	Gly	Gln	Pro	His	His	Glu	Leu	Asp	Ser				
		115				120						125							
Lys	Thr	Ile	Asp	Pro	Lys	Val	Ala	Phe	Pro	Arg	Arg	Ala	Gln	Pro	Lys				
	130					135					140								
Met	Val	Thr	Arg	Thr	Lys	Lys	Ile	Phe	Val	Gly	Gly	Leu	Ser	Ala	Asn				

145		150		155		160
Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa Phe Xaa Lys Val	165		170		175	
Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly	180		185		190	
Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys	195		200		205	
Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Gln Cys Lys Lys	210		215		220	
Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala	225		230		235	240
Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met	245		250		255	
Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala	260		265		270	
Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu	275		280		285	
Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu	290		295			

<210> 950
 <211> 488
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (344)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (416)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (429)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (430)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 950

Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
1 5 10 15
Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr SerLeu Ser Asp Leu
20 25 30
Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
35 40 45
Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met SerLys
50 55 60
Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
65 70 75 80
Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
85 90 95
Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
100 105 110
Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
115 120 125
Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
130 135 140
Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
145 150 155 160
Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
165 170 175
Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
180 185 190
Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
195 200 205
Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
210 215 220
Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
225 230 235 240
Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
245 250 255
Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
260 265 270
Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
275 280 285
Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
290 295 300

Gly Gln Leu Arg Gln Asp Val Glu Glu Arg Leu His Ala Gln His Phe
 305 310 315 320
 Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys
 325 330 335
 Leu Lys Arg Leu His Lys Ala Xaa Glu Ala Pro Gly Thr Asn Gly Ser
 340 345 350
 Leu Val Leu Ala Thr Pro Gly Ala Gly Ala Arg Pro Glu Pro Asp Ser
 355 360 365
 Leu Gln Ala Arg Leu Gly Gln Leu Gln Arg Asn Leu Ser Glu Leu His
 370 375 380
 Met Thr Thr Ala Arg Arg Glu Glu Glu Leu Gln Tyr Thr Leu Glu Asp
 385 390 395 400
 Met Arg Ala Thr Leu Thr Arg His Val Asp Glu Ile Lys Glu Leu Xaa
 405 410 415
 Ser Glu Ser Asp Glu Thr Phe Asp Gln Ile Ser Lys Xaa Xaa Arg Gln
 420 425 430
 Val Glu Glu Leu Gln Val Asn His Thr Ala Leu Arg Glu Leu Arg Val
 435 440 445
 Ile Leu Met Glu Lys Ser Leu Ile Met Glu Glu Asn Lys Glu Glu Val
 450 455 460
 Glu Arg Gln Leu Leu Glu Leu Asn Leu Thr Leu Gln His Leu Gln Gly
 465 470 475 480
 Gly Met Pro Thr Ser Ser Ser Thr
 485

<210> 951
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 951
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile
 1 5 10 15
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro
 20 25 30
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile
 35 40 45
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr
 50 55 60

```

<210> 952
<211> 306
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurringL-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring amino acids

<400> 952
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1             5             10             15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
      20             25             30

```


Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Asn Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
 145 150 155 160
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
 165 170 175
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
 180 185 190
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
 195 200 205
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
 210 215 220
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro
 225 230 235 240
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys
 245 250 255
 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln
 260 265 270
 Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro
 275 280 285
 Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys
 290 295 300
 Glu Lys
 305

<210> 953
<211> 40
<212> PRT
<213> Homo sapiens

<400> 953
Met Ser Gly Ser Ser Leu Pro Ser Ala Leu Ala Leu Ser Leu Leu Leu
1 5 10 15
Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Arg
20 25 30
Val Gln Ser Gly Gln Asp Gln Lys
35 40

<210> 954
<211> 64
<212> PRT
<213> Homo sapiens

<400> 954
Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp
1 5 10 15
Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His
20 25 30
Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg
35 40 45
Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile
50 55 60

<210> 955
<211> 26
<212> PRT
<213> Homo sapiens

<400> 955
Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp
1 5 10 15
Leu Gln His Thr Leu Pro Asn His Gln Gly
20 25

<210> 956
<211> 50
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<400> 956

Val	His	Ala	Xaa	Thr	Pro	Phe	Ala	Gly	Xaa	Cys	Phe	Asp	Pro	Val	Ser
1				5				10						15	

Leu	Tyr	Trp	Cys	Tyr	Xaa	Asn	Pro	Gly	Thr	His	Cys	Tyr	Pro	Thr	Leu
			20					25					30		

Arg	Gly	Xaa	Glu	Gln	Arg	Xaa	Pro	Ser	Xaa	Arg	Ser	His	Ile	Val	Leu
		35					40					45			

Arg	Ser
	50

<210> 957

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring amino acids

<400> 957

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys
65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95

Leu Ile Ala Ser Thr Ala Val
100

<210> 958

<211> 103

<212> PRT

<213> Homo sapiens

<400> 958

Met Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe
1 5 10 15

Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile
20 25 30

Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe
35 40 45

Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp
50 55 60

Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn
65 70 75 80

Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg
85 90 95

Thr Arg Val Leu Phe Ile Tyr
100

<210> 959

<211> 198

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 959
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met LeuLeu
 1 5 10 15
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr
 20 25 30
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr
 35 40 45
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr
 50 55 60
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp
 65 70 75 80
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met
 85 90 95
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu
 100 105 110
 Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser
 115 120 125
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser
 130 135 140
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val
 145 150 155 160
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr
 165 170 175
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr
 180 185 190
 Arg Val Leu Phe Ile Tyr
 195

<210> 960
 <211> 106
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 960
Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Ala
1 5 10 15
Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
20 25 30
Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
35 40 45
Ala Gln Phe Ser Thr Tyr Phe Pro Gly Ty Phe Asp Gly Gln Tyr Trp
50 55 60
Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly
65 70 75 80
Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Gln Thr Phe Ser Asn
85 90 95
Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr
100 105

<210> 961
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring amino acids

<400> 961
Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Ala Arg Ala Ala Cys Xaa
1 5 10 15
Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
20 25 30
Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
35 40 45
Ala His Xaa Ile Leu Thr Thr Arg Met Ser Leu Gly Phe Gln Ser Pro
50 55 60

His Leu Thr Met
65

<210> 962
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring amino acids

<400> 962
Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Xaa Pro Ala Xaa
1 5 10 15

Pro Val Pro Ala Val Ala Glu
20

<210> 963
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring amino acids

<400> 963
Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro

1		5		10		5									
Gly	Pro	Gly	Gly	Gly	Glu	His	Pro	Thr	Ala	Asp	Arg	Ala	Gly	Cys	Ser
		20						25					30		
Ala	Ser	Gly	Ala	Cys	Tyr	Ser	Leu	His	His	Ala	Thr	Met	Lys	Arg	Gln
		35					40					45			
Ala	Ala	Glu	Glu	Ala	Cys	Ile	Leu	Arg	Gly	Gly	Ala	Leu	Ser	Thr	Val
	50					55					60				
Arg	Ala	Gly	Ala	Glu	Leu	Arg	Ala	Val	Leu	Ala	Leu	Leu	Arg	Ala	Gly
65					70					75					80
Pro	Gly	Pro	Gly	Xaa	Gly	Ser	Lys	Asp	Leu	Leu	Phe	Trp	Val	Ala	Leu
				85					90						95
Glu	Arg	Arg	Arg	Ser	His	Cys	Xaa	Leu	Glu	Asn	Glu	Pro	Leu	Arg	Gly
			100					105					110		
Phe	Ser	Trp	Leu	Ser	Ser	Asp	Pro	Gly	Gly	Leu	Glu	Ser	Asp	Thr	Leu
		115					120					125			
Gln	Trp	Val	Glu	Glu	Pro	Gln	Arg	Ser	Cys	Thr	Ala	Arg	Arg	Trp	Val
	130					135					140				
Leu	Pro	Gly	His	Arg	Trp	Gly	Arg	Ala	Arg	Ser	Trp	Lys	Glu	Met	Arg
145					150				155						160
Cys	His	Leu	Xaa	Ala	Asn	Ala	Thr	Cys	Ala	Ser	Thr	Ser	Leu	Arg	Ser
			165						170					175	
Cys	Val	Leu	Arg	Arg	Ala	Pro	Gly	Pro	Pro	Leu	Thr				
			180					185							

<210> 964
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 964															
Met	Leu	Glu	Thr	Leu	Ser	Gln	Phe	Ile	Ser	Ile	Leu	Phe	Val	Leu	Leu
1				5					10					15	
Trp	Ile	Ile	Ser	Asp	Leu	Ile	Leu	Cys	Phe	Leu	Lys	Cys	Gly	Asn	Pro
			20					25					30		
Gly	Thr	Leu	Asp	Met	Val	Leu	Pro	Ile	Trp	Thr	Asn	Gln	Tyr	Ile	His
		35					40					45			
Ser	Ser	Arg	Ser	Ile	Leu	Ser	Phe	Ile							
	50					55									

<210> 965
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 965
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 966
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 966
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 967
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 967
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro
 1 5 10 15
 Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu
 20 25 30
 Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr
 35 40 45
 Arg Pro Ile Pro Ser Phe Leu Lys Ile
 50 55

<210> 968
 <211> 93
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 968

Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met Gly Leu
1 5 10 15

Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Tyr Leu Gly Pro Gln
20 25 30

Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly
35 40 45

Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu
50 55 60

Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro
65 70 75 80

Ala Arg Leu Gly Gln Pro Gln Leu Gln Thr Gly Pro Gly
85 90

<210> 969

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring amino acids

<400> 969

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
1 5 10 15

Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
20 25 30

Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu He Asp Ser Thr Asn
35 40 45

Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
50 55 60

Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro

65		70		75		80
Ala Thr Leu Ser	Ala Thr Phe Gln Gly His	Pro Met Asn Asp	Pro Thr			
	85	90	95			
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe						
	100	105	110			
Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp						
	115	120	125			
Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn						
	130	135	140			
Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp						
	145	150	155			160
Cys Pro Ser Met Gln Glu Gln His Ser Xaa Glu Arg						
	165	170				

<210> 970
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 970
Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
1 5 10 15
Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
20 25 30
Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
35 40 45
Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Phe Tyr
50 55 60
Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
65 70 75 80
Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
85 90 95
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Ser Arg Pro Phe Pro
100 105 110
Gly Pro Ala Asp Gln Pro Asn Pro Leu Ala Ser Cys Thr Gln Gln Thr
115 120 125
Pro Val Ser
130

<210> 971
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 971
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr
 1 5 10 15
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr
 20 25 30
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val
 35 40 5
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser
 50 55 60
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala
 65 70 75 80
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val
 85 90 95
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu
 100 105 110
 Phe Phe His His Phe Tyr His His Gln
 115 120

<210> 972
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 972
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
 35 40 45
 Ser

<210> 973
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 973
 Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile
 1 5 10 15
 Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg
 20 25 30
 His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala
 35 40 45
 Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro
 50 55 60
 Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro
 65 70 75 80
 His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu
 85 90 95
 Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr
 100 105 110
 Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg
 115 120 125
 Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro
 130 135 140
 Ser Leu Phe Gly
 145

<210> 974
 <211> 484
 <212> PRT
 <213> Homo sapiens

<400> 974
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Pro Pro Thr Pro Ala Ah Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg
 35 40 45
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Ty Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu

65	70	75	80
Asp Leu Val Phe	Ile Ile Asp Ser Ser Arg	Ser Val Arg Pø	Leu Glu
	85	90	95
Phe Thr Lys Val	Lys Thr Phe Val Ser Gln	Ile Ile Asp Thr	Leu Asp
	100	105	110
Ile Gly Ala Ala	Asp Thr Arg Val Ala Val	Val Asn Tyr Ala	Sø Thr
	115	120	125
Val Lys Ile Glu	Phe His Leu Gln Thr His	Ser Asp Lys Gln	Ser Leu
	130	135	140
Lys Gln Ala Val	Ala Arg Ile Thr Pro Leu	Ser Thr Gly Thr	Met Ser
	145	150	155
Gly Leu Ala Ile	Gln Thr Ala Met Asp Glu	Ala Phe Thr Val	Glu Ala
	165	170	175
Gly Ala Arg Gly	Pro Thr Ser Asn Ile Pro	Lys Val Ala Ile	Ile Val
	180	185	190
Thr Asp Gly Arg	Pro Gln Asp Gln Val Asn	Glu Val Ala Ala	Arg Ala
	195	200	205
Arg Ala Ser Gly	Ile Glu Leu Tyr Ala Val	Gly Val Asp Arg	Ala Asp
	210	215	220
Met Glu Ser Leu	Lys Met Met Ala Ser Glu	Pro Leu Asp Glu	His Val
	225	230	235
Phe Tyr Val Glu	Thr Tyr Gly Val Ile Glu	Lys Leu Ser Ser	Arg Phe
	245	250	255
Gln Glu Thr Phe	Cys Ala Leu Asp Pro Cys	Val Leu Gly Thr	His Arg
	260	265	270
Cys Gln His Val	Cys Val Ser Asp Gly Glu	Gly Lys His His	Cys Glu
	275	280	285
Cys Ser Gln Gly	Tyr Ser Leu Asn Ala Asp	Gln Lys Thr Cys	Ser Ala
	290	295	300
Ile Asp Lys Cys	Ala Leu Asn Thr His Gly	Cys Glu His Ile	Cys Val
	305	310	315
Asn Asp Arg Thr	Gly Ser Tyr His Cys Glu	Cys Tyr Glu Gly	Tyr Thr
	325	330	335
Leu Asn Gln Asp	Arg Lys Thr Cys Ser Ala	Gln Asp Gln Cys	Ala Phe
	340	345	350
Gly Thr His Gly	Cys Gln His Ile Cys Val	Asn Asp Arg Asp	Gly Ser
	355	360	365
His His Cys Glu	Cys Tyr Glu Gly Tyr Thr	Leu Asn Ala Asp	Asn Lys

370		375		380
Thr Cys Ser Val Arg	Ser Glu Cys Ala Gly	Gly Ser His Gly Cys Gln		
385	390	395		400
His Leu Cys Val Asp	Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe			
	405	410		415
Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu				
	420	425		430
Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala				
	435	440		445
Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn				
	450	455		460
Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly				
	465	470		475
				480
Gln Ile His Arg				

<210> 975

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (255)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 975
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15

 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30

 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg
 35 40 45

 Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60

 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80

 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95

 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110

 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125

 Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140

 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160

 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175

 Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190

 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205

 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa
 210 215 220

 Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 978
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val
 20 25 30
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala
 35 40 45
 Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly
 50 55 60
 Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile
 65 70 75 80
 Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu
 85 90 95
 Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu
 100 105 110
 Gly Ser Pro
 115

<210> 979
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 979
 Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg
 1 5 10 15
 Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val LeuLeu
 20 25 30
 His Gln Leu Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val
 35 40 45
 Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly
 50 55 60
 Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu
 65 70 75 80
 Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr
 85 90

<210> 980
 <211> 368
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (310)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (365)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 980
 Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile
 20 25 30
 Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
 35 40 45
 Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
 50 55 60
 Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
 65 70 75 80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
 85 90 95
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
 100 105 110
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser
 115 120 125
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
 130 135 140
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
 145 150 155 160
 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg
 165 170 175
 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala
 180 185 190
 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val
 195 200 205
 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val
 210 215 220
 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln
 225 230 235 240
 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys
 245 250 255
 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val
 260 265 270
 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu
 275 280 285
 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro
 290 295 300
 Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu
 305 310 315 320
 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro
 325 330 335
 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu
 340 345 350
 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Xaa Cys Leu Se
 355 360 365

<210> 981
<211> 67
<212> PRT
<213> Homo sapiens

<400> 981
Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala
1 5 10 5
Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys
20 25 30
Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro
35 40 45
Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr
50 55 60
Gly Ala Thr
65

<210> 982
<211> 14
<212> PRT
<213> Homo sapiens

<400> 982
Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro
1 5 10

<210> 983
<211> 6
<212> PRT
<213> Homo sapiens

<400> 983
Met Leu Leu Leu Tyr Leu
1 5

<210> 984
<211> 469
<212> PRT
<213> Homo sapiens

<400> 984
Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu Ala Ser Ser Leu
1 5 10 15
Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu

20					25					30					
Arg	Ser	Trp	Pro	Gly	Ala	Ala	Cys	Arg	Leu	Ser	Arg	Ala	Glu	Ser	Glu
		35					40					45			
Arg	Arg	Cys	Arg	Ala	Pro	Gly	Gln	Pro	Pro	Gly	Ala	Ala	Leu	Cys	His
	50					55					60				
Gly	Arg	Gly	Arg	Cys	Asp	Cys	Gly	Val	Cys	Ile	Cys	His	Val	Thr	Glu
65						70					75				80
Pro	Gly	Met	Phe	Phe	Gly	Pro	Leu	Cys	Glu	Cys	His	Glu	Trp	Val	Cys
				85					90					95	
Glu	Thr	Tyr	Asp	Gly	Ser	Thr	Cys	Ala	Gly	His	Gly	Lys	Cys	Asp	Cys
			100					105					110		
Gly	Lys	Cys	Lys	Cys	Asp	Gln	Gly	Trp	Tyr	Gly	Asp	Ala	Cys	Gln	Tyr
		115					120					125			
Pro	Thr	Asn	Cys	Asp	Leu	Thr	Lys	Lys	Lys	Ser	Asn	Gln	Met	Cys	Lys
	130					135					140				
Asn	Ser	Gln	Asp	Ile	Ile	Cys	Ser	Asn	Ala	Gly	Thr	Cys	His	Cys	Gly
145						150					155				160
Arg	Cys	Lys	Cys	Asp	Asn	Ser	Asp	Gly	Ser	Gly	Leu	Val	Tyr	Gly	Lys
				165					170					175	
Phe	Cys	Glu	Cys	Asp	Asp	Arg	Glu	Cys	Ile	Asp	Asp	Glu	Thr	Glu	Glu
			180					185					190		
Ile	Cys	Gly	Gly	His	Gly	Lys	Cys	Tyr	Cys	Gly	Asn	Cys	Tyr	Cys	Lys
		195					200					205			
Ala	Gly	Trp	His	Gly	Asp	Lys	Cys	Glu	Phe	Gln	Cys	Asp	Ile	Thr	Pro
	210					215					220				
Trp	Glu	Ser	Lys	Arg	Arg	Cys	Thr	Ser	Pro	Asp	Gly	Lys	Ile	Cys	Ser
225						230					235				240
Ser	Arg	Gly	Thr	Cys	Val	Cys	Gly	Glu	Cys	Thr	Cys	His	Asp	Val	Asp
				245					250					255	
Pro	Thr	Gly	Asp	Trp	Gly	Asp	Ile	His	Gly	Asp	Thr	Cys	Glu	Cys	Asp
			260					265					270		
Glu	Arg	Asp	Cys	Arg	Ala	Val	Tyr	Asp	Arg	Tyr	Ser	Asp	Asp	Phe	Cys
		275						280					285		
Ser	Gly	His	Gly	Gln	Cys	Asn	Cys	Gly	Arg	Cys	Asp	Cys	Lys	Ala	Gly
	290					295					300				
Trp	Tyr	Gly	Lys	Lys	Cys	Glu	His	Pro	Gln	Ser	Cys	Thr	Leu	Ser	Ala
305						310					315				320
Glu	Glu	Ser	Ile	Arg	Lys	Cys	Gln	Gly	Ser	Ser	Asp	Leu	Pro	Cys	Ser

325										330					335				
Gly	Arg	Gly	Lys	Cys	Glu	Cys	Gly	Lys	Cys	Thr	Cys	Tyr	Pro	Pro	Gly				
			340					345					350						
Asp	Arg	Arg	Val	Tyr	Gly	Lys	Thr	Cys	Glu	Cys	Asp	Asp	Arg	Arg	Cys				
		355					360				365								
Glu	Asp	Leu	Asp	Gly	Val	Val	Cys	Gly	Gly	His	Gly	Thr	Cys	Ser	Cys				
	370					375					380								
Gly	Arg	Cys	Val	Cys	Glu	Arg	Gly	Trp	Phe	Gly	Lys	Leu	Cys	Gln	His				
385					390					395					400				
Pro	Arg	Lys	Cys	Asn	Met	Thr	Glu	Glu	Gln	Ser	Lys	Asn	Leu	Cys	Glu				
				405					410					415					
Ser	Ala	Asp	Gly	Ile	Leu	Cys	Ser	Gly	Lys	Gly	Ser	Cys	His	Cys	Gly				
			420					425					430						
Lys	Cys	Ile	Cys	Ser	Ala	Glu	Glu	Trp	Tyr	Ile	Ser	Gly	Glu	Phe	Cys				
		435					440					445							
Asp	Cys	Asp	Asp	Arg	Asp	Cys	Asp	Lys	His	Asp	Gly	Leu	Ile	Cys	Thr				
	450					455					460								
Arg	Glu	Trp	Asn	Met															
465																			

<210> 985

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE
 <222> (157)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 985
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile
 1 5 10 15
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val
 20 25 30
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg
 35 40 45
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val
 50 55 60
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys
 65 70 75 80
 Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly
 85 90 95
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg
 100 105 110
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser Xaa Thr Arg Cys Leu Val
 115 120 125
 Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly
 130 135 140
 Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu
 145 150 155 160

 Gly

<210> 986
 <211> 325
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring amino acids

<400> 986

Val	Pro	Pro	Ala	Val	Cys	Pro	Ala	Gly	Xaa	Phe	Cys	Gln	Asn	Gln	Cys	
1				5					10					15		
Phe	Thr	Lys	Arg	Gln	Tyr	Pro	Glu	Thr	Lys	Ile	Ile	Lys	Thr	Asp	Gly	
			20					25					30			
Lys	Gly	Trp	Gly	Leu	Val	Ala	Lys	Arg	Asp	Ile	Arg	Lys	Gly	Glu	Phe	
		35					40					45				
Val	Asn	Glu	Tyr	Val	Gly	Glu	Leu	Ile	Asp	Glu	Glu	Glu	Cys	Met	Ala	
	50					55				60						
Arg	Ile	Lys	His	Ala	His	Glu	Asn	Asp	Ile	Thr	His	Phe	Tyr	Met	Leu	
65					70					75					80	
Thr	Ile	Asp	Lys	Asp	Arg	Ile	Ile	Asp	Ala	Gly	Pro	Lys	Gly	Asn	Tyr	
				85					90					95		
Ser	Arg	Phe	Met	Asn	His	Ser	Cys	Gln	Pro	Asn	Cys	Glu	Thr	Leu	Lys	
			100					105					110			
Trp	Thr	Val	Asn	Gly	Asp	Thr	Arg	Val	Gly	Leu	Phe	Ala	Val	Cys	Asp	
		115					120					125				
Ile	Pro	Ala	Gly	Thr	Glu	Leu	Xaa	Phe	Asn	Tyr	Asn	Leu	Asp	Cys	Leu	
	130					135					140					
Gly	Asn	Glu	Lys	Thr	Val	Cys	Arg	Cys	Gly	Ala	Ser	Asn	Cys	Ser	Gly	
145					150					155					160	
Phe	Leu	Gly	Asp	Arg	Pro	Lys	Thr	Ser	Thr	Thr	Leu	Ser	Ser	Glu	Glu	
				165					170					175		
Lys	Gly	Lys	Lys	Thr	Lys	Lys	Lys	Thr	Xaa	Arg	Arg	Arg	Ala	Lys	Gly	
			180					185					190			
Glu	Gly	Lys	Arg	Gln	Ser	Glu	Asp	Glu	Cys	Phe	Arg	Cys	Gly	Asp	Gly	
		195					200					205				
Gly	Gln	Leu	Val	Leu	Cys	Asp	Arg	Lys	Phe	Cys	Thr	Lys	Ala	Tyr	His	
	210					215					220					
Leu	Ser	Cys	Leu	Gly	Leu	Gly	Lys	Arg	Xaa	Phe	Gly	Lys	Trp	Glu	Cys	
225					230					235					240	
Pro	Trp	His	His	Cys	Asp	Val	Cys	Gly	Lys	Pro	Ser	Thr	Ser	Phe	Cys	
				245					250					255		

His Leu Cys Pro Asn Ser Phe Cys Lys Glu His Gln Asp Gly Thr Ala
 260 265 270
 Phe Ser Cys Thr Pro Asp Gly Arg Ser Tyr Cys Cys Glu His Asp Leu
 275 280 285
 Gly Ala Ala Ser Val Arg Ser Thr Lys Thr Glu Lys Pro Pro Pro Glu
 290 295 300
 Pro Gly Lys Pro Lys Gly Lys Arg Arg Arg Arg Arg Gly Trp Arg Arg
 305 310 315 320
 Val Thr Glu Gly Lys
 325

<210> 987
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 987
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
 1 5 10 15
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
 20 25 30
 Val Ser Gln Lys Arg Gly His Ile
 35 40

<210> 988
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 988
 Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr
 1 5 10 15
 Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp
 20 25 30
 Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser
 35 40 45
 Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys
 50 55 60

<210> 989
 <211> 131
 <212> PRT

<213> Homo sapiens

<400> 989

```
Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
 1           5           10           15

Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
    20           25           30

Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
    35           40           45

Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
    50           55           60

Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
    65           70           75           80

Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
    85           90           95

Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
    100          105          110

Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
    115          120          125

Tyr Ile His
    130
```

<210> 990

<211> 173

<212> PRT

<213> Homo sapiens

<400> 990

```
Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1           5           10           15

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
    20           25           30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
    35           40           45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
    50           55           60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
    65           70           75           80

Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala
    85           90           95

Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly
```

100 105 110
 Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly
 115 120 125
 Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser
 130 135 140
 Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr
 145 150 155 160
 Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys
 165 170

<210> 991
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 991
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu
 1 5 10 15
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu
 20 25 30
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn
 35 40 45
 Glu Ala Gly
 50

<210> 992
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 992
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1 5 10 15
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
 20 25 30
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35 40 45

<210> 993

<211> 10
<212> PRT
<213> Homo sapiens

<400> 993
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
1 5 10

<210> 994
<211> 4
<212> PRT
<213> Homo sapiens

<400> 994
Met Phe Lys Met
1

<210> 995
<211> 201
<212> PRT
<213> Homo sapiens

<400> 995
Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
1 5 10 15
Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser
20 25 30
Phe Ser Lys Arg Gly His Ser Val Arg Ser Phe Gly Thr Gly Thr His
35 40 45
Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
50 55 60
Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
65 70 75 80
Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
85 90 95
Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
100 105 110
Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
115 120 125
Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
130 135 140
Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
145 150 155 160

Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
 165 170 175
 Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg
 180 185 190
 Thr Phe Leu His Thr Val Cys Phe Tyr
 195 200

<210> 996
 <211> 392
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (251)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 996
 Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1 5 10 15
 Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
 20 25 30
 Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
 35 40 45
 Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
 50 55 60
 Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
 65 70 75 80
 Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
 85 90 95
 Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
 100 105 110
 Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
 115 120 125
 Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
 130 135 140
 Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
 145 150 155 160
 Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
 165 170 175
 Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
 180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
 195 200 205
 Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
 210 215 220
 Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
 225 230 235 240
 Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala
 245 250 255
 Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly
 260 265 270
 Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly
 275 280 285
 Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys
 290 295 300
 Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile
 305 310 315 320
 Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val
 325 330 335
 Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr
 340 345 350
 Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala
 355 360 365
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Gu Arg Ser Asp Arg Val
 370 375 380
 Leu Glu Gly Phe Ile Lys Gly Arg
 385 390

<210> 997
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 997
 Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln Met PhePhe Gly Ile
 1 5 10 15
 Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe
 20 25 30
 Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly TyrTrp Leu
 35 40 45

Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg
50 55 60

<210> 998
<211> 69
<212> PRT
<213> Homo sapiens

<400> 998
Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
1 5 10 15
Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
20 25 30
Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
35 40 45
Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
50 55 60
His Gly Lys Tyr Ser
65

<210> 999
<211> 102
<212> PRT
<213> Homo sapiens

<400> 999
Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
1 5 10 15
Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
20 25 30
Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
35 40 45
Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Lys Leu Leu Gly Gln
50 55 60
Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
65 70 75 80
Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
85 90 95
Leu Ala Arg Trp Met Val
100

<210> 1000
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1000
 Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
 35 40 45
 Arg Arg Ser His Cys
 50

<210> 1001
 <211> 472
 <212> PRT
 <213> Homo sapiens

<400> 1001
 Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser
 1 5 10 15
 Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr
 20 25 30
 Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys
 35 40 45
 Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr
 50 55 60
 Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly
 65 70 75 80
 Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln
 85 90 95
 Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His
 100 105 110
 Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His
 115 120 125
 Lys Ile Ala Ile Leu Gly Leu Gly Ser Ser Ile Gly Thr Pro Pro Glu
 130 135 140

Gly	Ile	Thr	Ala	Glu	Val	Leu	Val	Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln	145	150	155	160
Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly	Lys	Ile	Val	Val	Tyr	Asn	Gln	Pro	165	170	175	
Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val	Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val	180	185	190	
Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu	Ala	Ser	Leu	Ile	Arg	Ser	Val	Ala	195	200	205	
Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His	Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp	210	215	220	
Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala	Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu	225	230	235	240
Met	Met	Ser	Arg	Met	Ala	Ser	His	Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu	245	250	255	
Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro	Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val	260	265	270	
Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr	Pro	Glu	Gln	Val	Val	Leu	Val	Ser	275	280	285	
Gly	His	Leu	Asp	Ser	Trp	Asp	Val	Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly	290	295	300	
Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	Ala	Leu	Ser	Leu	Ile	Lys	Asp	Leu	305	310	315	320
Gly	Leu	Arg	Pro	Lys	Arg	Thr	Leu	Arg	Leu	Val	Leu	Trp	Thr	Ala	Glu	325	330	335	
Glu	Gln	Gly	Gly	Val	Gly	Ala	Phe	Gln	Tyr	Tyr	Gln	Leu	His	Lys	Val	340	345	350	
Asn	Ile	Ser	Asn	Tyr	Ser	Leu	Val	Met	Glu	Ser	Asp	Ala	Gly	Thr	Phe	355	360	365	
Leu	Pro	Thr	Gly	Leu	Gln	Phe	Thr	Gly	Ser	Glu	Lys	Ala	Arg	Ala	Ile	370	375	380	
Met	Glu	Glu	Val	Met	Ser	Leu	Leu	Gln	Pro	Leu	Asn	Ile	Thr	Gln	Val	385	390	395	400
Leu	Ser	His	Gly	Glu	Gly	Thr	Asp	Ile	Asn	Phe	Trp	Ile	Gln	Ala	Gly	405	410	415	
Val	Pro	Gly	Ala	Ser	Leu	Leu	Asp	Asp	Leu	Tyr	Lys	Tyr	Phe	Phe	Phe	420	425	430	
His	His	Ser	His	Gly	Asp	Thr	Met	Thr	Val	Met	Asp	Pro	Lys	Gln	Met	435	440	445	

Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp
 450 455 460

Met Glu Glu Met Leu Pro Arg Ser
 465 470

<210> 1002
 <211> 178
 <212> PRT
 <213> Homo sapiens .

<400> 1002
 Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp Gly Val
 1 5 10 15
 Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu Met Met
 20 25 30
 Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu Lys Met
 35 40 45
 Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val Ala Glu
 50 55 60
 Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser Gly His
 65 70 75 80
 Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly Gly Gly
 85 90 95
 Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu
 100 105 110
 Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu Glu Gln
 115 120 125
 Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val Asn Ile
 130 135 140
 Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala Gly Thr Phe Leu Pro
 145 150 155 160
 Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ser Trp Arg
 165 170 175
 Arg Leu

<210> 1003
 <211> 199
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1003
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu
 1 5 10 15
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr
 20 25 30
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr
 35 40 45
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala
 50 55 60
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu
 65 70 75 80
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val
 85 90 95
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe
 100 105 110
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe
 115 120 125
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser
 130 135 140
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Aa Ser Val
 145 150 155 160
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu
 165 170 175
 Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser
 180 185 190
 Arg Ser Pro Gln Leu Gln Lys
 195

<210> 1004
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 1004
 Ser Trp
 1

<210> 1005
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 1005
 Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val
 1 5 10 15
 Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg
 20 25 30

<210> 1006
 <211> 283
 <212> PRT
 <213> Homo sapiens

<400> 1006
 Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
 1 5 10 15
 Val Leu Gln Asn Ala Pro Phe SerSer Lys Ala Lys Leu His Gly Glu
 20 25 30
 Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
 35 40 45
 Gln Asp Val Ser Thr Ile Ile Gly Ser Arg GluGln Leu Ala Val Leu
 50 55 60
 Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
 65 70 75 80
 Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro GlnLeu Ile Glu
 85 90 95
 Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
 100 105 110
 Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys IlePhe Thr
 115 120 125
 Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
 130 135 140
 Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
 145 150 155 160
 Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
 165 170 175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
 180 185 190
 Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Ala Ser Phe Val Glu
 195 200 205
 Leu Gly Ala Asn Pro Ala Tyr His Glu Leu Leu Leu Thr Val Leu Trp
 210 215 220
 Tyr Gly Val Val His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
 225 230 235 240
 Met Phe Glu Val Cys Gln His Met Pro Leu Leu Val Ser Ile Ile Met
 245 250 255
 Ile Phe Phe Phe Leu Arg Arg Arg Arg Glu Phe Phe Leu Ile Lys Arg
 260 265 270
 Leu Cys Ile Ser Lys Lys Lys Lys Lys Lys Lys
 275 280

<210> 1007

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1007

Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
 1 5 10 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
20 25 30
Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
35 40 45
Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
50 55 60
Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
65 70 75 80
Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
85 90 95
Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
100 105 110
Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
115 120 125
Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
130 135 140
Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
145 150 155 160
Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
165 170 175
Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
180 185 190
Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu
195 200 205
Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa
210 215 220
Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
225 230 235 240
Met Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln
245 250 255
Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn
260 265 270
Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe
275 280 285

<210> 1008
<211> 45
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1008

Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu
1 5 10 15

Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu
20 25 30

Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser
35 40 45

<210> 1009

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1009

Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
1 5 10 15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys
130 135 140

Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr
145 150 155 160

Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
165 170 175

Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
 180 185 190
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
 195 200 205
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
 210 215 220
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met
 225 230 235 240
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser
 245 250 255
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu
 260 265 270
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp
 275 280 285
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val
 290 295 300
 Cys
 305

<210> 1010
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1010
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
 1 5 10 15
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
 20 25 30
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 35 40 45
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Arg Leu Pro
 50 55 60
 Gln His Arg Pro Asp Leu Leu Val
 65 70

<210> 1011
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1011

Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
1 5 10 15
Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
20 25 30
Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
35 40 45
Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
50 55 60
Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
65 70 75 80
Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
85 90 95
Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
100 105 110
Ala Ala Leu Gly Ala Ala Ser Ala His
115 120

<210> 1012

<211> 509

<212> PRT

<213> Homo sapiens

<400> 1012

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
85 90 95
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
100 105 110
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
130 135 140
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
145 150 155 160
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
165 170 175
Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
180 185 190
Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
195 200 205
Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
210 215 220
Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
225 230 235 240
Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
245 250 255
Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
260 265 270
Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
275 280 285
Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
290 295 300
Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
305 310 315 320
Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
325 330 335
Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
340 345 350
Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
355 360 365
Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
370 375 380
Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
385 390 395 400
Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
405 410 415
Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
420 425 430

Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
435 440 445

Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
450 455 460

Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
465 470 475 480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
485 490 495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
500 505

<210> 1013
<211> 554
<212> PRT
<213> Homo sapiens

<400> 1013
Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly
1 5 10 15

Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg
20 25 30

Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu
35 40 45

Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu
50 55 60

Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg
65 70 75 80

Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala
85 90 95

Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu
100 105 110

Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe
115 120 125

Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys
130 135 140

Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr
145 150 155 160

Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala
165 170 175

Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu
 180 185 190
 Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln
 195 200 205
 Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu
 210 215 220
 Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val
 225 230 235 240
 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val
 245 250 255
 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly
 260 265 270
 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala
 275 280 285
 Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser
 290 295 300
 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg
 305 310 315 320
 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala
 325 330 335
 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala
 340 345 350
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys
 355 360 365
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu
 370 375 380
 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile
 385 390 395 400
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro
 405 410 415
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala
 420 425 430
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile
 435 440 445
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn
 450 455 460
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro
 465 470 475 480

Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln
 485 490 495
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg
 500 505 510
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro
 515 520 525
 Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro
 530 535 540
 Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys
 545 550

<210> 1014
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 1014
 Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly
 1 5 10 15
 Pro Gln Gly Pro Gly Pro Ser
 20

<210> 1015
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1015
 Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe
 1 5 10 15
 Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser
 20 25 30
 Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg
 35 40 45
 Ser Lys Val Met Phe Pro Ile Arg Gly
 50 55

<210> 1016
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 1016

Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Val Val Ala
 1 5 10 15

Val Gln Leu Cys Tyr Met Lys Gln Pro
 20 25

<210> 1017

<211> 606

<212> PRT

<213> Homo sapiens

<400> 1017

Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Po
 1 5 10 15

Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
 20 25 30

Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
 35 40 45

Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
 50 55 60

Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
 65 70 75 80

Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95

Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
 100 105 110

Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
 115 120 125

Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
 130 135 140

Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
 145 150 155 160

Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
 165 170 175

Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
 180 185 190

Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
 195 200 205

Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
 210 215 220

Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile

225		230		235		240
Asn Ser Met Val	Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile					
	245			250		255
Leu Met Arg Val	Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu					
	260			265		270
Glu Thr Thr Ser	Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn					
	275			280		285
Gly Trp Lys Ile	Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg					
	290			295		300
Gly Leu Leu Cys	Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu					
	305			310		315
Gly Thr Gly Ile	Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His					
	325			330		335
Arg His Gly Ala	Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr					
	340			345		350
Cys Cys Ile Ser	Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly					
	355			360		365
Gly Glu Arg Trp	Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser					
	370			375		380
Val Pro Phe Phe	Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala					
	385			390		395
Asn Gly Ser Thr	Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu					
	405			410		415
Thr Val Trp Leu	Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile					
	420			425		430
Phe Gly Lys Asn	Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys					
	435			440		445
Asn Ile Ala Arg	Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val					
	450			455		460
Ile His Met Thr	Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val					
	465			470		475
Glu Leu Tyr Tyr	Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr					
	485			490		495
Leu Tyr Gly Ile	Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly					
	500			505		510
Ala Cys Ile Ser	Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp					
	515			520		525
Tyr Arg Trp Trp	Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu					

530		535		540
Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met				
545		550	555	560
Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr				
	565		570	575
Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser				
	580	585		590
Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp				
	595	600	605	

<210> 1018

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1018

Met	Leu	Ala	Leu	Thr	Leu	Ala	Lys	Ala	Asp	Ser	Pro	Arg	Thr	Ala	Leu
1				5					10					15	

Leu	Cys	Ser	Ala	Trp	Leu	Leu	Thr	Ala	Ser	Phe	Ser	Ala	Gln	Gln	His
			20					25					30		

Lys	Gly	Ser	Leu	Gln	Val	His	Gln	Thr	Leu	Ser	Val	Glu	Met	Asp	Gln
		35					40					45			

Val	Leu	Lys	Ala	Leu	Ser	Phe	Pro	Lys	Lys	Lys	Ala	Ala	Leu	Leu	Ser
	50					55					60				

Thr	Ala	Ile	Leu	Cys	Phe	Leu	Arg	Thr	Ala	Asu	Arg	Gln	Ser	Phe	Ser
65						70				75					80

Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr
85 90 95

Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly
100 105 110

His Trp Ala Xaa Lys Thr Ser Trp Cys Lys
115 120

<210> 1019
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1019
Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala
1 5 10 15

Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys
20 25 30

Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val
35 40 45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln
50 55 60

Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg
65 70 75 80

Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe
85 90 95

Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro
100 105 110

Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser
115 120 125

Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu
130 135 140

Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly
145 150 155 160

Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met
 165 170 175
 Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser
 180 185 190
 Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala
 195 200 205
 Val Ser Leu Ser His Ile Arg Asn
 210 215

<210> 1020
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 1020
 Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
 1 5 10 15
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Glu Pro His Pro Ser Pro
 115 120 125

<210> 1021
 <211> 164
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1021

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
 1 5 10 15
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Xaa Ser Met
 115 120 125
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly
 130 135 140
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Leu Pro
 145 150 155 160
 Gly Ser Leu Gln

<210> 1022
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 1022
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
 1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu
 35

<210> 1023
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1023
 Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1 5 10 15
 Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
 20 25 30
 Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
 35 40 45
 Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly
 50 55 60

<210> 1024
 <211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1024
 Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His
 1 5 10 15
 Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser
 20 25 30
 Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg
 35 40 45
 Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln
 50 55 60
 Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser
 65 70 75 80
 Thr Arg Ile Pro His Arg Thr Asn Ser Val Pro Thr Ser Gln Cys Gly
 85 90 95
 Val Ser Tyr Leu Ala Ala Ala Thr Val Ser Thr Ser Pro Val Leu Leu
 100 105 110
 Ser Ser Thr Cys Ile Ser Pro Asn Ser Lys Ser Val Pro Ala His Gly
 115 120 125
 Thr Thr Leu Asn Ala Gln Pro Ala Ala Ser Gly Ala Met Asp Pro Val
 130 135 140

Cys Ser Met Gln Ser Arg Gln Val Ser Ser Ser Ser Ser Ser Pro Ser
 145 150 155 160
 Thr Pro Ser Gly Leu Ser Ser Val Pro Ser Ser Pro Met Ser Arg Lys
 165 170 175
 Pro Gln Lys Leu Lys Ser Ser Lys Ser Leu Arg Pro Lys Glu Ser Ser
 180 185 190
 Gly Asn Ser Thr Asn Cys Gln Asn Ala Ser Ser Ser Thr Ser Gly Gly
 195 200 205
 Ser Gly Lys Lys Arg Lys Asn Ser Ser Pro Leu Val His Ser Ser
 210 215 220
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser His Ser Met Gly Val Phe
 225 230 235 240

<210> 1025

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1025

Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
 1 5 10 15

Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His
 20 25 30

Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu
 35 40 45

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu
 50 55 60

Ser Val Thr Lys Thr Phe Leu
 65 70

<210> 1026

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1026

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
1 5 10 15
Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
20 25 30
Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
35 40 45
Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
50 55 60
Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
65 70 75 80
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
85 90 95
Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
100 105 110
Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
115 120 125
Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu
130 135 140

<210> 1027

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1027

Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
1 5 10 15
Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
20 25 30
Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser
35 40 45
Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
50 55 60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
65 70 75 80

Ser Leu Thr Gly Tyr Val
85

<210> 1028
<211> 42
<212> PRT
<213> Homo sapiens

<400> 1028
Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu
1 5 10 15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser
20 25 30

Trp Pro Lys Thr Leu Val Glu Glu Gln Asn
35 40

<210> 1029
<211> 76
<212> PRT
<213> Homo sapiens

<400> 1029
Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr
1 5 10 15

Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr
20 25 30

Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr
35 40 45

Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile
50 55 60

Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe
65 70 75

<210> 1030
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1030
Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
1 5 10 15

Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser
 65 70 75 80
 Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu
 85 90

<210> 1031
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 1031
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser
 1 5 10 15
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
 20 25 30
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu
 35 40 45
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
 50 55 60
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
 65 70 75 80
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
 85 90 95
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys
 100 105 110
 Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe
 115 120 125
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala
 130 135 140
 Phe
 145

<210> 1032

<211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1032

```

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
  1           5           10           15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
      20           25           30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
      35           40           45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
      50           55           60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
      65           70           75           80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
      85           90           95

Glu Pro Asp His Asp Ser Leu Tyr His ProPro Pro Glu Glu Asp Gln
      100          105          110

Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
      115          120          125

Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His ProGln
      130          135          140

```

<210> 1033
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1033

```

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
  1           5           10           15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
      20           25           30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
      35           40           45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
      50           55           60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
      65           70           75           80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
      85           90           95

```

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110

Gly Glu Glu Arg Pro Arg Leu
 115

<210> 1034

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1034

Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
 1 5 10 15

Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
 20 25 30

Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
 35 40 45

Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
 50 55 60

Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
 65 70 75 80

Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser
 85 90 95

Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln
 100 105 110

Thr Ser Xaa Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala
 115 120 125

Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln
 130 135 140

Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly
 145 150 155 160

Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu
 165 170 175

Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys
 180 185 190

Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu

195	200	205
Glu Ser Gly Tyr Ile Pro	Gln Gly Thr Glu Ala Lys	Ala Leu Ser Met
210	215	220
Pro Glu Lys Trp Lys Leu Ser	Gly Val Tyr Lys Leu Gln Tyr Met	His
225	230	235
Pro Leu Cys Glu Gly Ser Ser	Ala Thr Leu Thr Cys Val Pro	Leu Gly
245	250	255
Asn Leu Ile Val Val Asn Ala	Leu Asn Leu Pro Asp Val Phe	Gly Leu
260	265	270
Val Val Leu Pro Leu Glu Leu	Lys Leu Arg Ile Phe Arg	Leu Leu Asp
275	280	285
Val Arg Ser Val Leu Ser	Leu Ser Ala Val Cys Arg	Asp Leu Phe Thr
290	295	300
Ala Ser Asn Asp Pro Ieu Leu	Trp Arg Phe Leu Tyr Leu Arg	Asp Phe
305	310	315
Arg Asp Asn Thr Val Arg Val	Gln Asp Thr Asp Trp Lys Glu	Leu Tyr
325	330	335
Arg Lys Arg His Ile Gln Arg	Lys Glu Ser Pro Lys Gly	Arg Phe Val
340	345	350
Met Leu Leu Pro Ser Ser Thr	His Thr Ile Pro Phe Tyr	Pro Asn Pro
355	360	365
Leu His Pro Arg Pro Phe Pro	Ser Ser Arg Leu Pro Pro	Gly Ile Ile
370	375	380
Gly Gly Glu Tyr Asp Gln Arg	Pro Thr Leu Pro Tyr Val	Gly Asp Pro
385	390	395
Ile Ser Ser Leu Ile Pro Gly	Pro Gly Gu Thr Pro Ser	Gln Phe Pro
405	410	415
Pro Leu Arg Pro Arg Phe Asp	Pro Val Gly Pro Leu Pro	Gly Pro Asn
420	425	430
Pro Ile Leu Pro Gly Arg Gly	Gly Pro Asn Sp Arg Phe	Pro Phe Arg
435	440	445
Pro Ser Arg Gly Arg Pro Thr	Asp Gly Arg Leu Ser Phe	Met
450	455	460

<210> 1035

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1035

Met Phe Val Pro Ser Cys Leu Cys Leu Arg Phe Val Val Thr Ser Leu
1 5 10 15
Leu Leu Gln Met Thr His Ser Cys Gly Gly Phe Tyr Ile Cys Val Ile
20 25 30
Phe Glu Thr Ile Leu Ser Glu Phe Lys Thr Gln Ile Gly Arg Leu Tyr
35 40 45
Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val
50 55 60
Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro
65 70 75 80
Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile
85 90 95
Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro
100 105 110
Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro
115 120 125
Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn
130 135 140
Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg
145 150 155 160
Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
165 170

<210> 1036

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1036

Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
1 5 10 15
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
20 25 30
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln
35 40 45
Thr Ala Trp Pro Ala
50

<210> 1037

```

<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1037
Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1             5             10             15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20          25          30

Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
          35          40          45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
          50          55          60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
          65          70          75          80

Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
          85          90          95

Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu
          100          105          110

Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp
          115          120          125

Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile
          130          135          140

Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val
          145          150          155          160

Asn Leu Pro Met Cys Arg Glu Asp Asp
          165

```

<210> 1038
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1038
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 1039
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1039
 Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
 1 5 10 15
 Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser

	20		25		30
Val	Ile	Thr	Asp	Asn	Leu
	35			Cys	Leu
				40	

<210> 1040
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1040
 Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
 1 5 10 15
 Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
 20 25 30
 Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
 35 40 45
 Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
 50 55 60
 Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
 65 70 75 80
 Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
 85 90 95
 Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
 100 105 110
 Asn Ile Gln Leu Cys Phe Met Leu Thr His
 115 120

<210> 1041
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1041
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
 20 25 30
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
 35 40 45
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
 50 55 60

Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile
 65 70 75 80
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys
 85 90 95
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
 100 105 110
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu
 115 120 125
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser
 130 135 140
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr
 145 150 155

<210> 1042

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1042

Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15

Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu
 20 25 30

Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly
 35 40 45

Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu
 50 55 60

Thr Ala Pro Ile Met Trp Pro
 65 70

<210> 1043
 <211> 15090
 <212> DNA
 <213> Homo sapiens

<400> 1043
 acgttcccta cttcctgtgc tcttgccgag acgcgcgcgt cgggggtttaa cgcgtttctg 60
 ggccgcgcta agcccggcct aggggcagct ttgactcgag agccggctat aggcgcagtg 120
 aaggttccct ggaacgggag gcgccaggg gggcgctggc cgccgtgcta aagcacagct 180
 cgacgttgcc gcccgaaagc acccaggtcc ggggctacga cttcaaccgc ggtgtgaatt 240
 accgcgcact gctggaggcc ttcggcacca ccggcttcca agcaaccaac ttcgggcgcg 300
 ctgtacagca agtcaatgcc atggtgagga ccgggcggaa tttctaggga cgcggagg 360
 cgtggcttgt agaaccaacg cgggtactaga cgggggcagc gtttccagtg gaggggatat 420
 gtcttttatt tgagttgccc aatagttgga ggaaggcggg acctattctg ggcgggagtt 480
 tctgtcctgg gaaggggatt ttgcaactctg gtagttacat gctggtacgg taacctgagg 540
 agcgagggac tgattcttgg tggggggcg gtttctaggt acattttaag ctttctggaa 600
 tgggcggagc ctggggcaag acaaattaag ggaggatatg ggaggaggag cctaagtctg 660
 ggcggttctt gaatttagat ttgcttttcc cagcggggaa gggaccggat ctgaaaggag 720
 atgtctctctg attcctaaaa ggggtggggc tggctgggcg cgggtggcgca tgctataat 780
 cccagcattt tgggaagccg aggcgggttg atcaagagaa gaggagttcg agacaagcct 840
 ggccaacatg gtgaaacctt gtctctacta aaatgcaaaa aattagccgg gcatggtgtt 900
 gcgcgcctgt agtcccagct actcgggagg ctgaggcagg agaatcgctt gaaccgcgca 960
 ggtggagggt gcagttagct gagattgcgc cactgcactc cagcctggtg acagagcgat 1020
 actctgtctc aaaaaaaaaa aaaaaaaaaa ggcgggcacg gtggctcatg cctgtaattct 1080
 cagcattttg ggaggccgag gcgggcggat cacctgaggt cgggagttcg agaccagcct 1140
 gaccaacatg gaaaaacccc gtctctacta aaatgcaaaa aattagcgg gcatggtgtt 1200
 gcgcgcctgt agtcccagct actcgggagg ctgaggcagg agaatcgctt gaaccgcgga 1260
 ggtggagctt gcagttagcc gagatcgcg cactgcactc tagcctgggt aacaagagtg 1320
 aaactccgtc caaaaaaaaaa aaaaaaaggg tgggggcaaa tcctgaacgt gtgtcttgag 1380
 atctggtctg ggaaggggca gaggtttacat aggagatgtt ccttggtccc ctgtagaact 1440
 ggtctgaatg ccctgaatgt gcagggcctg ggtgaaatc tgtttctgga gccacactgg 1500
 agtcctgagt ctgggattta aggccagtgc ttaacttgac ttggccctta ctcacagatc 1560
 gagaagaagc tggaaacctt gtcacaggat gaagaccagc agcggacct gaccagagc 1620
 cgccgcccac ttaccagctg caccattttc ctgggatata catccaacct catcagttca 1680
 ggcacccgtg agaccattcg ctaccttgtg cagcacaaca tgggtggggac ctggtgaggc 1740
 cgtggccttg gcctctgggt caatgggcaa tgcagttatt gatcgtttaa gtgagatggg 1800
 cagataaggg tctgttataa gcagaggaat agaatacaagt tttgttttgt agcagagctc 1860
 cctcataaga gtcactggac aaggatgagg ttagaagttc tgcccagaat gagggcaggg 1920
 gcttccctct tgggccaaat tcaactgcctt gtggctgcag gtggacgtat tggtgaccac 1980
 agctggcggc gtggaggaag acctcatcaa gtgcctgcg cccacatact tgggcgagtt 2040
 tagcctcagg gggaaggagc tccgggagaa cgggatcaat aggtgagaac cctgagtggg 2100
 gttgggcagg ggagctggac caagggtcct ggggcctgat gcctacatgc ctctgttct 2160
 caggatcgga aacctgctgg tgcaccaatga gaattactgc aagtttgagg actggctgat 2220
 gccatttctg gaccagatgg tgatggagca gaacacagag gtggggctgg ggcaacctgg 2280
 aggggccaag tcagtgggag tcaggggagg catggcctga aggtcacatc ctctcctagg 2340
 gtgtaaagtg gacgccttct aagatgatcg cccggctggg caaggagatc aacaaccag 2400
 agtccgtgta ttactgggcc cagaagggtg acctaagc gggagcaaag tagccagact 2460
 ttggcatgtg ttaacttatt tcacttttcc agcctcctgg ggattcagta ctgttattct 2520
 cagcatcctc actcttagat gaggagactc aaacacagat aggcgtggta atttttttt 2580
 tttttgagac aggatcttgc tctgtcacct aggctggagt gcagtgggtg gatcacagct 2640
 cattgcagcc tcaacctcct ggggccaaag agtcctccca cctcagcctc tcgagttagt 2700
 gggaccacag gcacatgcc tcatggccca ctaattttta aaattttttg tagagatggg 2760
 ggtctccctg tgtttccag gctggctctt aactcctggc gtcaggcagt cctcccacct 2820
 tggcctccca aagtgtctgg attacggcg tgagccactg tgcccagcca ggctaggtaa 2880
 ttttgtctga agtcacacag ataactagt gggcctcagc atccttatgc tcctcccaga 2940
 ctatctctgg aacagtagag gcaacactta gcaactctcc tggggcctgg ctcagggtcc 3000

cacactccca	gatgctataa	aataagagct	accactccc	tttaattaga	gaatcaaac	3060
ctgaaaaaaa	aaaaaaaaaa	gctacatagt	cttttttttt	tttttttttt	ttttgagaca	3120
gagtcttgct	ctgtcgccca	ggctggagtg	taatgggtgtg	atttcagctc	actgcaccct	3180
ccacctccca	ggttcaagtg	attctcccgc	ctcaccctcc	tgagtagctg	ggactatagg	3240
caccacccat	catgcccggc	caatttttgt	atttttctac	agatgggggt	tcaccatggt	3300
ggccaggctg	gtcttgaact	cctgacctca	agtgatccac	ccgccttggc	ctcccaaagt	3360
gctgggatta	caggggtgag	ccaccacacc	cagcctactt	actctttctt	ttttacgaga	3420
cagggctctca	ttctgtttcc	caggctggag	tgcaatggca	caataatggc	ctactgctgt	3480
cttgagcttc	tgggctcagt	cgattctcct	gcctcagcct	gctgagtagc	tgggactaca	3540
ggtgcgtgcc	accatgcctg	gctaattgtt	tttgtagaga	tgggaactca	ccatgttgca	3600
caagctggct	cttttttttt	ttttgagacg	gagttttgtc	cttggtaccc	aggccagagt	3660
ccaatggcgc	aatcttggct	cacagcaacc	tctacctcct	gggttcaagc	aattctcctg	3720
cctcagcatc	aagttcccaa	gtagctggga	ttataggcat	gtgccaccac	ccctggctaa	3780
ttttgtatth	ttagtagagg	cagggtttct	ccatgttggt	caggctgggt	tcgagctcct	3840
gacctcaggt	gatccacccg	cctcggcctc	ccaaagtgtc	gggatcaaa	gcgtgagcca	3900
ccgcgcccg	ccacaagctg	gctcttttaa	aaagaattag	acggccgggc	acggtggctc	3960
atgcttgtaa	tcccagtaet	ttgggggctg	aggcgggtgg	atcacctgaa	gtcaggagtt	4020
caagaccagc	ctggccaaca	tgggtggaacc	ctgtctctac	taaaaaaaca	aaatgcaaaa	4080
ttagctgggc	atagtggcat	gcgcctgtaa	tcctagctac	tcgggagggt	gaagcaggag	4140
aatcactgga	accaggagg	cagaggttgc	agtgagctga	gatagtgcc	ttgcaactcca	4200
gcctgggcaa	cgagtgaac	tccgtctcag	ggaataaaaa	aaaagagaga	gaaacagctc	4260
agcaagctaa	gaataggctg	gttcttttat	tgccaggcact	tatactaagt	gttttctgtg	4320
ggttttctca	tataggcctc	atctgtgaga	ggtgtttctg	ttatgcttat	aattgaggaa	4380
acagtcctag	agaaatttag	caccccatcc	acagtcagat	agtcataatg	ccagcatgga	4440
gacgaggctc	tgagctccag	ccactgtcct	gtcatgttct	ctgcagaacc	acatccctgt	4500
gtttagtccc	gcacttacag	acggctcgct	gggcgacatg	atcttcttcc	attcctacaa	4560
gaaccggggc	ctggctcctg	acatcggtga	gggtgaggcg	ctagggccac	agaggagagg	4620
ggaaggagg	ctggctgagt	ccaaggcctg	acttcggcgc	tcttccccca	gacctgaggc	4680
tcatcaacac	acaggccatc	tttgccaagt	gcactgggat	gatcattctg	ggcggggggc	4740
tggtaagca	ccacattgcc	aatgccaacc	tcattggtgag	tgggggtggc	gcttcggccc	4800
actctgcaga	tgatctgtgt	ggtgggccta	tgccatgtgc	tgggtagaca	gcatgaacta	4860
gacaggccag	gatccctgct	ccccgggact	gatgttctag	taggggagat	agcaacaag	4920
tgacatccac	gtcagggggc	agtcattgct	acggggaata	ctaaatgatg	gcatgagaag	4980
agaaaggggt	gctgtccaac	aagaggtttt	ggaaggaggc	ttctggaagt	gtgagctggg	5040
agcaggggtt	tggggaggca	tctcccagga	gctatgtggt	tgtctcccgt	gccaggagtt	5100
tgtgctgctg	tactagcatt	gagcttctg	attgcaaagt	tcccaggaga	gggaacagcc	5160
attgcaaagg	ctctggggcg	cctgaagtaa	tccagggaaca	gctgggtacc	tggtagggg	5220
aaggtaggtg	aggaggggct	aggaggtgat	gcaggagggt	gccacaggga	gcctgctggg	5280
ccctgtgggc	tgaggcgggg	ctttggcttt	tgcactgaga	gaagtgggag	aggacttgac	5340
tcgggttccc	atgctcccc	tgggtggccat	gtgggtgaaca	gatgggtggca	ggtgagttag	5400
aactccagtc	caggacagtg	gtgacctatg	agggatcagg	aggcaggcgg	tggttggatt	5460
tggagggctt	ctgaagatag	agttgctggc	agctcctgcc	ttgcagatgg	ggcagggttg	5520
ttgacacctg	gctgttgggt	ctgggaaac	acagccatcg	ttgccagca	gctctagtga	5580
ccccagacat	tgacatgggc	cctgtctggg	agcgaatgtc	tgtgaagggc	ttccttcac	5640
tgggacacac	ctctcagcct	gtttggctac	ggtgtcctcc	ctctgtgtct	gtctcctgtg	5700
actggctgac	tgggccacc	gtgccccgc	ctccccacag	cggaaacggg	ccgatacgc	5760
tgtttacatc	aacacagccc	aggagtttga	tggctctgac	tcagggtgcc	gaccagacga	5820
ggctgtctcc	tggggcaaga	tccgggtgga	tgcacagccc	gtcaaggtaa	gcgctggctg	5880
ggtggggcat	agggtctctg	ggacgatgag	tgtgggtccc	atggcttacc	caggttcccc	5940
cctacccagg	tctatgctg	cgccctccctg	gtcttcccc	tgcttgtggc	tgaacacctt	6000
gcccagaaga	tggatgcctt	catgcatgag	agaacagagg	actgagcggc	tgcggtccca	6060
ggaaggtctt	acccctctt	ctattttatta	atttgacagc	ccagcccctc	ccctactttt	6120
tggtcagcta	cgtctctaga	ataagatggt	atctgaagtc	cttccatgtct	gtgtctcgg	6180
tccttggtcc	tgttgggtgg	tcccctggct	tcagcctgct	ccatcctctg	cctcataggc	6240
ctcctctcgc	cagcactgga	cgctgcctcc	catggcggtc	agcaggcagg	gctctgttgg	6300
gtggtaggcc	agcgactgca	ccacaccgga	accacaggc	agggccagag	ccagcgcacc	6360
ctgtggagcg	aggggtaggg	agtgttatc	tgtggctggg	ctgtaccctg	gtttctgagg	6420

tccctgggca	cccccatct	cagtcctgcc	tgaagccctc	agtcacctct	ccccgacctt	6480
cagccacctg	cctctaattg	cctcctagac	actgcaaaat	taatctacct	cagactgagc	6540
ccctcagtag	ctctgtccta	ccaggtgttc	aggccgcaag	tctgggagc	ctcttattga	6600
ttttttat	tttaaaatag	cagagatggg	gtcttaccat	gttgcccagg	ctggtctcga	6660
actcctggcc	tcaagtgatc	ctcctgcctt	ggcctcccaa	agtgcctagga	ctacaggtgt	6720
gagccacat	gcctggcttt	gggagtcttt	ttctttttct	gttttttttt	gagatggagt	6780
cttgctctgt	cgccaggctg	gagtgcagtg	gcgccatctg	ggctcactgc	aacctccgac	6840
tccctagttc	aagcgattct	cctgcctcag	cctcccaggt	agggtgggatt	acaggcacgc	6900
gtaccatgc	ccagctaatt	tttgtatttt	tagtacagat	ggggtttcac	catgttggcc	6960
aggatgatct	ctatctcctg	acctcgtgat	ccaccccc	cgccctccca	aagtgcctggg	7020
attacaggtg	tgaaccacca	tgccctggccg	ggagtctttt	tcttgtacca	catgttcctc	7080
tatcagttat	tcctcttggc	tctgtctcta	gaccatgtcc	agagactgct	gattttctgc	7140
cactaccatg	tttgagcat	gccttgctca	cagcttgcc	gttccctgcc	accagctggg	7200
ctccatcctg	tccatttggc	agccccaatg	atccccactt	cccctgggtcc	caacacaatg	7260
taaacagttc	ctcaagcaag	ccatgcttcc	tctttccacc	ttgaaaatgt	cccttgatgt	7320
gcctgcctc	caaggcaact	tctgttctac	tgggcccata	agaaataggt	ggaacattct	7380
gtctacctta	gttcctaaag	caagagcttg	cccccaggt	cttcaggggc	cccccggttc	7440
cctccatcct	cttatgggcc	ttagtctccc	tggccaagcc	cagcgctgat	gtctcctttg	7500
ccgagattcc	cccggtctctg	acccactac	accaggatgg	tctgtttctg	gcctgactcc	7560
ccaccaggct	gggacatgtc	aaggacaggg	ctcagggtct	gaaaccatgc	acagggatgc	7620
taagatgtag	ctccagtttc	ttgaatgact	gcagccctat	ctcacccaag	gttagacatg	7680
gccgtcggct	cccccttgcc	caggggtcag	tgccagttgc	tggcctggc	atctgcagcc	7740
cagcctgacc	ccgatcttg	ccgcacctgc	cgccacctgc	aagcctttgt	ttcctgactg	7800
atgcatgcgc	aggctacacc	tcttaacda	tgcgtttccc	tttgccctgga	atgcccttcc	7860
tgccatctct	tctctctagc	ccaagctggg	cacggtgtct	caggcctgta	atcccagcac	7920
tttgggaggc	cgaggcggt	gaatcacttg	aggctcaggag	tttgagacca	gcctggccaa	7980
catggtgaaa	ccctgtctct	actaaaaata	caaaaattag	ccaggatatg	tggtagggtg	8040
ctgtaatccc	agctactcag	gaggctgaga	catgagaatc	acctgaacct	tggggggaag	8100
aggttgcagt	gagctgagat	ggcgccactg	catttgccctg	ggcaatagtc	tcaaaaaaag	8160
aaaaaagggc	cgggtgtggt	ggcttacgcc	tgtaactcta	gcacttggga	aggctgaggt	8220
gggtggatca	ttaggtcagg	agttaagac	cagcctgacc	aacatagtg	aacctgtct	8280
ctactaaaaa	tacaaaaatt	agctgggtgt	ggtggcacgc	acctataatc	ccaactactc	8340
aggagactga	ggcaggagaa	tcgcttgaac	ttgggaggcg	gagtttacag	tgagccaaga	8400
ttgcgccact	gcactctagc	ctgggcgaca	gagcaagact	tgtctcaaaa	aaaaaaaaa	8460
aaaaaaaaaa	aagatcctag	ccttcaggcc	ctggagtgc	tgaggtaagg	acagggtctga	8520
gatggggcag	gcactctaggt	atgaagtagg	gctgggggca	cctcacctcc	accagggtccc	8580
agaagaacac	cttcccgctc	tcagaacagc	tgaccacatg	tgtgtcacgc	tcgctcaggc	8640
agcagtcacg	cctgtattcc	tggttcttat	ggcccttgta	cctaagggtg	gacaggatcg	8700
gggggcttgg	tcctctccag	gggtgggaga	ggagggaagg	ggatccccac	gaccacaagg	8760
actcactcgc	ccagcagctc	ccctgtgtct	ttgtccagga	gccgcaatgt	ggagtccagg	8820
ctggacacca	gggtgcactg	cccatcccgg	ctgaagcagg	tgcaaggtgt	ggggccttgg	8880
gggaagggtg	ggtaggtgag	tgagggtggg	gtgcccctgg	ttggcccccc	atcttccctg	8940
cctgtcccac	atccccagcc	acactcactg	cccacgtagt	ctgagaagag	ctgccccatc	9000
cttaggtcat	agcgtctcac	gcggccatcc	acggagctgc	aggagagggt	agatccagcg	9060
ggaaccttga	ctacactcac	atggctccag	gcagccctgt	gccttcccag	cccagtgggc	9120
ctgctcttcc	agtgcacagg	agtggaaatc	tgaagctctg	gccttgagac	tcaggcccag	9180
ggccaattac	gtcctactcc	atcattttcca	agacccacac	ccccctttcca	agcccttgga	9240
gtcctttctga	ttcccccttt	tcttcttttt	gtttgagaca	ggttttgct	cttgttgctc	9300
aggctggagt	gcaatggcat	gatcttggct	caccggaacc	tctgcctccc	gggttcaaga	9360
gattctcctt	cctcagcctc	ccgagtagat	gggaatacag	gcatgcacca	ccacgccttg	9420
ctaattttgt	attttttagta	gagacggggg	ttctccatgt	tggtcaggct	ggtctcgaac	9480
tcccaacctc	aggtgacctc	cccacctcag	cctcccaaag	tgtctgggatt	acagggtgta	9540
gccacccac	ctggcccaat	ttcccccttt	cctgcattct	ccagctcctc	ctcctcagta	9600
ctcagtccca	ccactttccc	cactaccacg	caccagcatc	tagactgttc	tggtctccct	9660
gcacccccca	cagccaccag	agggagcact	tttcaagta	cagttgacct	atgaacaaca	9720
cggtttgaac	tgaacgcgtc	cacttatatg	tggattttct	tctgcctcta	tcagctgtga	9780
gacaccaaga	tcaatccctc	ctcttccctc	tcctctgctt	tctcaacacg	aagatcttta	9840

tgacgatctc	ttcactttcca	cttaaatgaat	agaaaaatata	ttttttccac	caggcgcggt	9900
ggctcacgcc	tgtgattcca	gctctttggg	aggccagggc	aggtggatca	cgaggtcaag	9960
agatggagac	cctcctggcc	aacatggcga	aaccccgctc	ctactaaaaa	tacaaaaatt	10020
agctgggctg	ggtggcacgc	gactgtagtc	ccagctacta	gggaggctga	ggcaggagaa	10080
tcgcctgaac	ctagaagtta	gaggttgacg	tgagccgaga	tcacgtcact	gcactccagc	10140
ctggcaacag	agcgagactg	cgtctcaaaa	aaaacaaaaa	ttcttcctta	tgattatttt	10200
tatgtattta	tttatttaat	ttattttactt	atthttgagac	ggagtcttgc	tctatcgccc	10260
aggagtgtag	tgggtgcgatg	tcggctcaca	gcaagctctg	cctcctgggt	tactccatt	10320
ctcctgcctc	agcctcctga	gtagctggga	ctacaggcgc	ctgccactat	gcccggctaa	10380
ttttttgtat	tttttagtaga	gacgggggtt	caccgtgtta	gccagaatga	tctcgatctc	10440
ctgacctcat	gatccgcctg	cctctgcctc	ccaaagtgtc	gggattacag	gcatgagcca	10500
cagcgccccg	cctattttta	tttattttta	gaaatcattt	tatctttttt	tttttgagat	10560
ggagtctcac	tttgtcgccc	aggctggagt	gcagtggcac	aatctcggct	cactgcaacc	10620
tccaactccc	gggttcaggc	gattctcctg	cctccgcctc	ccgagtggct	gggattacag	10680
gctcccgtca	ccacacctgg	ctaatttttg	catttttagt	agagacgggg	tttcactg	10740
ttggccaggc	tgatctcaac	ctcctgacct	caagtgatct	gcccaccttg	gcctcccaa	10800
gtgttggat	agccaccgtg	agccaccgtg	cccggccaga	ttattattat	ttttagagaa	10860
gtctgtcttt	caccagcat	ggagtgcatt	ggtgcctcga	actcttgac	tcaagtgatc	10920
cttccacttc	agcctcccaa	gtagctggga	ttacagctgt	gtgccactgt	gcccagctga	10980
gagtaggttt	taatctgagc	atgggggcag	ctatgattcc	ccgtagcacc	tggggtgaga	11040
ccaggtcctg	gctccactca	ccctgccagg	atctcgtgg	ctgacacctt	cacactggac	11100
acgccatctc	tggcctcatc	cagcgtctgc	actggctcag	gcctccgtga	gggcaatcc	11160
caacagcgga	tactggaatc	aatagagcct	gtgaggccag	catgatggtg	aggtcagggt	11220
tggaggggga	gggcagcacc	ctgggcccc	gtgcttaggc	cccagactca	ccggacagga	11280
taactgtggc	ctcttcatta	aactgcaccg	tgttcacctt	ctgagaaaag	tattgccact	11340
cagaggaggc	tggactttgg	aggactggga	taaaggcagg	gttcccagtg	tcgggttaaag	11400
caagggcgaa	ggggagggtga	aagggttttg	gggaacagca	aggacagggg	ttggtgactg	11460
cctagcctgg	catgcggagt	gggggatcgt	catctgggga	agggatcctt	acggtgtaat	11520
gggggtggcc	gtgtcaccac	ctatgcgcta	atacgggtcc	cctccatca	aatgagggtc	11580
tccaggcttt	cactcacccc	tgcgtggccc	cggactttgc	gcacgacctg	ccctgatgcc	11640
acatcccaca	gaaccaccgc	cttgtccccg	ccgcccggag	agagactact	gttgtcaaaag	11700
gagctggagt	aaaggaggag	gaggatcagc	atcgacctcg	gatcccagcc	tcagcgctcc	11760
catcccagcc	tgggtccccg	ctcacccggc	cgcattccagc	acctcgtagc	cgtggccgct	11820
gtacgtccgc	agcagcgtcc	cccgaagcgg	gttccacagc	ttcagcgtct	tgtcactgcc	11880
gcacgtcagg	cagtaattgc	catccactgg	ggaacaccag	gcgggggtta	ctggggccgtc	11940
gatctcagga	ggcgggagga	ggacccggaa	tgaagacgaag	ggcgctcacc	attaaatcgt	12000
acggctcgca	ctgccccctg	cccgcagtcc	agcgtcttca	accgtttctg	cggcagctct	12060
ggaggccgcg	gctttggctc	agggaaagcc	atgctcccag	gactccttcc	ttgcagcctt	12120
aaatcggtct	gtacggaaaa	ttccgcgcct	tagaaaacca	cgcttgggtg	taaccttatt	12180
attgttcttc	ctgacctact	tcctgtttat	cacttccggg	ttcatcattt	tggcatttcg	12240
gtgatcgggt	tggaaactatt	gaagcccgtc	ttcaggttct	tttcccattt	ttccctttga	12300
aaggaagact	tctggcttct	cctaaatctc	cgttctctgg	gtaaggggag	tccaagcctc	12360
tgtcatgagg	aacggaaatg	cgagggcctc	gggtgtact	ctaaaatccg	ccctcagctt	12420
gcacgccgga	agctgcgatt	cctgcagcgg	aagaggcgtg	atctggcctt	cgactcgcta	12480
tgtccactaa	caatatgtcg	gacccacgga	ggccgaacaa	agtgtgagg	tgaggacccc	12540
agcgtcgtgg	gcacgggttc	gggttgtggg	tgtggatcgg	ggccctggga	agcgcctgtc	12600
tatcccgggg	gcaggacctg	agcgcctctg	accctcgagc	ctgtcgcagg	tacaagcccc	12660
cgccgagcga	atgtaacccg	gccttggacg	acccgacgcc	ggactacatg	aacctgctgg	12720
gcatgatctt	cagcatgtgc	ggcctcatgc	ttaaggtggg	cggggttag	cttctatggg	12780
tgtagttaga	cctgagaacg	aggccccggg	gcgggttttg	aatgaagcgg	ggtgtcttgt	12840
cattgctgat	ggggcgggac	ctgagatcgg	ccgggagtg	ggctgcgatg	acgtggggc	12900
gagaaagccc	cagctctttg	tgaagtcaag	gattcgagtc	aggttgggga	tgtggcagat	12960
tggctcgoga	gtggggccag	gctttgaagc	aacttggaga	ggagtgtggg	aaaaagggca	13020
gggtcttaag	catgtgggat	gtcagagtct	ctcttgggtc	tgagagacgc	aggccagaca	13080
gtaggactag	aaaccacgta	tctagagtat	gccatgagca	ggtgggactg	aggaattccg	13140
ggtggggcaa	ggtcccagct	gcatcagatg	gaatcagtg	gcatgatctg	gtgtctggaa	13200
aggtggcttc	ggggactcat	tgttgtgcct	ttcactaacc	tgcccaccca	cttaccttcc	13260

cctagctgaa	gtggtgtgct	tgggtcgctg	tctactgctc	cttcatcagc	tttgccaact	13320
ctcggagctc	ggaggacacg	aagcaaatga	tgagttagctt	catgtgagac	ttgccctaca	13380
gaacaagtga	ctcttgagta	aggggtgggg	ggaccccagc	ctggccatcc	tagatgaca	13440
cctctctcct	gtctcaggct	gtccatctct	gccgtggtga	tgtcctatct	gcagaatcct	13500
cagcccatga	cgcccccatg	gtgataccag	cctagaaggg	tcacattttg	gaccctgtct	13560
atccactagg	cctgggcttt	ggctgctaaa	cctgctgcct	tcagctgcca	tcctggactt	13620
ccctgaatga	ggcgtctcg	gtgccccag	ctggatagag	ggaacctggc	cctttcctag	13680
ggaacacctt	aggcttacc	ctcctgcctc	ccttcccctg	cctgctgctg	ggggagatgc	13740
tgtccatggt	tctaggggta	ttcatttgct	ttctcggtga	aacctgttgt	taataaagtt	13800
tttactctg	gctgtcagcc	tcttctgttc	agtgggggtg	tcctcctacct	ggcggaag	13860
ggctctagcc	ccataggcct	ggtgtggggc	cccagtctgg	aggcttctgg	ctgttcattt	13920
gcttacttca	taaaccttgt	gtcttaagtc	aggtgctagg	gacaagacag	tgacttctgc	13980
cctctggcaa	ctcaccagat	ggccctgctg	acctagataa	tctaggcttt	ggtttccttt	14040
tttttttttc	ctttttaaga	aagaaaatgg	tcttgatctg	tcatgcaggc	tgagtgcagt	14100
ggcacaatct	atgttcaactg	cagcctcaaa	ctcctgggct	caagcaatcc	tcccacctca	14160
gcttgccacg	taactgggac	cacaaatgcg	tgctaccatg	cccagttaat	tcttgttttt	14220
tttgagacag	agttttgctc	ttgttgccca	ggctggaggg	caatggcatg	atcttgatct	14280
cggctcactg	caacctccgc	ctcccagggt	caagtgatcc	tcctgcctca	gtctcccaag	14340
tagctgggat	tacaggcatg	tgccaccatg	cccagctaata	ttttgtattt	ttacattttg	14400
tgtaaaatta	caaattttgt	gttttcaaac	ccgtctctac	aaaacaaccc	atgttgccca	14460
ggctgggtctc	aaactcccag	gcccagtgat	ttcaccagcc	tggccctccc	aaagtgtctg	14520
gattgcaggc	ttgagccact	gcgcctgccc	tgggctttgt	tttcttatca	gagaatgaac	14580
tggtaggaat	tgggaaaggc	atgaaagact	cggggtcctt	ccccacttgt	cagacctct	14640
tttctctccg	gaacaccacg	ggatccttct	caaccagggt	ggatcccatc	cctgggtactc	14700
cagggttatt	taccacacgt	cccaatcccc	acagtatagg	actcttcac	agatcctcct	14760
cttaggcaag	ctaggctcctt	ccaggaccct	agcgtgaag	gtccatggga	cggacacctt	14820
ggattcccat	ggacacacta	caccggctag	gaaaaccogg	cccccttagg	aaaagcactt	14880
ctgctcctac	cggcattaag	aggcattccg	tcttggaatt	cggcatttaa	gaggcattcc	14940
gtcttcatag	cccgtgagac	gccagtgtca	cctttagccc	aaccagtgcc	ctgagggtgg	15000
cattttccta	ccttctctgta	acgacccccg	ggattgcccc	gggctacagc	ctctctcccc	15060
tgagcctcca	gaccgcgccc	tggccccgcg				15090

<210> 1044
 <211> 15090
 <212> DNA
 <213> Homo sapiens

<400> 1044	
acgtttcccta	cttctctgtgc
ggcgcgcgta	agccccggcct
aaggttccct	ggaacgggag
cgacgttgcc	gcccgaagc
accgcgcact	gctggaggcc
ctgtacagca	agtcaatgcc
cgtggcttgt	agaaccaacg
gtcttttatt	tgagttgccc
tctgtcctgg	gaaggggatt
aggcgaggac	tgattcttgg
tgggcggagc	ctggggcaag
ggcgtttctt	gaatttagat
atgctctctg	attcctaaaa
cccgaacatt	tgggaagccg
ggccaacatg	gtgaaaccct
gcgcgcctgt	agtccagct
ggtggagggt	gcagttagct
actctgtctc	aaaaaaaaaa
cagcattttg	ggaggccgag
tcttgcggag	acgcgcgcgt
ttgactcgag	agccggctat
gggcgctggc	cgccgtgcta
cttcaaccgc	ggtgtgaatt
agcaaccaac	ttcgggcgcg
tttctaggga	cgcggagggg
gtttccagtg	gaggggatat
acctattctg	ggcgggaggt
gctggtacgg	taacctgagg
acatttaaag	ctttctggaa
ggaggaggag	cctaagtctg
gggaccggat	ctgaaaggag
cgggtggcgca	tgccataaat
gaggagttcg	agacaagcct
aattagccgg	gcatggtgtt
agaatcgctt	gaaacgcga
cagcctgggtg	acagagcgat
gtggctcatg	cctgtaatct
cgggagttcg	agaccagcct

gaccaacatg	gagaaacc	gtctctacta	aaatgcaaaa	aattagccgg	gcatgggtgg	1200
gcgcgcctgt	agtccagct	actcgggagg	ctgaggcagg	agaatcgctt	gaaccggga	1260
ggtggagctt	gcagtgaacc	gagatcgcg	cattgcactc	tagcctgggt	aacaagagt	1320
aaactccgtc	caaaaaaaaa	aaaaaaagg	tgggggcaaa	tcctgaacgt	gtgtcttgag	1380
atctggctctg	ggaaggggca	gagtttacac	aggagatgtt	ccttggtccc	ctgtagaact	1440
ggtcctgtat	ccctgaatgt	gcagggcctg	gggtgaaatc	tgtttctgga	gcccacctgg	1500
agtccctgagt	ctgggattta	aggccagtgc	ttaaacttgac	ttggccctta	ctcacagatc	1560
gagaagaagc	tggaaaccact	gtcacaggat	gaagaccagc	acgcggacct	gacccagagc	1620
cgccgcccac	ttaccagctg	caccattttc	ctgggatata	catccaacct	catcagttca	1680
ggcatccgtg	agaccattcg	ctaccttgtg	cagcacaaca	tgggtggggac	ctgggtgaggc	1740
cgtggccttg	gcctctgggt	caatgggcaa	tgcagttatt	gatgtttaa	gtgagatggg	1800
cagatagggg	tctgttataa	gcagaggaat	agaatcaagt	tttgttttgt	agcagagctc	1860
cctcataaga	gtcactggac	aaggatgagg	ttagaagtgc	tgcccagaat	gagggcaggg	1920
gcttccttct	tgggccaat	tcactgcctt	gtggctgcag	gtggacgtat	tggtgaccac	1980
agctggcggc	gtggaggaag	acctcatcaa	gtgcctggcg	cccacatact	tgggcgagtt	2040
tagcctcagg	gggaaggagc	tccgggagaa	cgggatcaat	aggtgagaac	cctgagtgtt	2100
gttgggcagg	ggagctggac	caagggctct	ggggcctgat	gcctacatgc	ctcctgttct	2160
caggatcgga	aacctgctgg	tgcccaatga	gaattactg	aaagtttgagg	actggctgat	2220
gcccattctg	gaccagatgg	tgatggagca	gaacacagag	gtggggctgg	ggcaacctgg	2280
aggggccagt	tcagtgggag	tcaggggagg	catggcctga	aggtcacatc	ctctcctagg	2340
gtgtaaagt	gacgccttct	aagatgatcg	ccgggctggg	caaggagatc	aacaacccag	2400
agtccgtgta	ttactgggcc	cagaaggtga	ggacctaaag	gggagcaaag	tagccagact	2460
ttggcatgtg	ttaaacttatt	tcactcttcc	agcctcctgg	ggattcagta	ctgttattct	2520
cagcatcctc	actcttagat	gaggagactc	aaacacagat	aggcgtggta	attttttttt	2580
tttttgagac	aggatcttgc	tctgtcacct	aggtggagt	gcagtgggtg	gatcacagct	2640
cattgcagcc	tcaacctcct	ggggccaagc	agtcctccca	cctcagcctc	tcgagtagct	2700
gggaccacag	gcacatgcca	tcatgccccag	ctaattttta	aaattttttg	tagagatggg	2760
ggtctccctg	tgtttcccg	gctggctctg	aactcctggc	gtcaggcagt	cctcccacct	2820
tggcctccca	aaagtgtggt	attacaggcg	tgagccactg	tgcccagcca	ggctaggtaa	2880
ttttgtctga	agtcacacag	ataactagt	gggcctcagc	atccttatgc	tcctcccaga	2940
ctatctctgg	aacatgtag	gcaacactta	gcaactctcc	tggggcctgg	ctcagggtcc	3000
cacactccca	gatgtcataa	aataagagt	accactccc	tttaattaga	gaatcagaac	3060
ctgaaaaaaa	aaaaaaaaaa	gtacatagt	cttttttttt	tttttttttt	ttttgagaca	3120
gagtcttgct	ctgtcgccca	ggctggagt	taatgggtg	atttcagctc	actgcaccct	3180
ccacctccca	ggttcaagt	attctcccg	ctcaccctcc	tgagtagctg	ggactatagg	3240
caccaccat	catgcccggc	caatttttgt	atttttctac	agatgggggt	tcaccatgtt	3300
ggccagggtg	gtcttgaact	cctgaacctc	agtgatccac	ccgccttggc	ctcccaaagt	3360
gctgggatta	caggggtgag	ccaccacacc	cagcctactt	actctttctt	ttttacgaga	3420
cagggtctca	ttctgtttcc	caggctggag	tgcaatggca	caataatggc	tcactgctgt	3480
cttgagcttc	tgggctcagt	cgattctcct	gcctcagcct	gctgagtagc	tgggactaca	3540
ggtgcgtgcc	accatgcctg	gctaattgtt	ttttagagag	tgggaactca	ccatgttgca	3600
caagctggct	cttttttttt	ttttgagacg	gagttttgct	cttgttacct	aggcagagt	3660
ccaatggcgc	aatcttggct	cacagcaacc	tctacctcct	gggttcaagc	aattctcctg	3720
cctcagcatc	aagttcccaa	gtagctggga	ttataggcat	gtgccaccac	ccctggctaa	3780
ttttgtattt	ttagttaggg	cagggtttct	ccatgttgg	caggctgggt	tcgagctcct	3840
gacctcaggt	gatccaccg	cctcgccctc	ccaaagtgt	gggattacaa	gcgtgagcca	3900
ccgcgccggg	ccacaagctg	gctcttttaa	aaagaattag	acggccgggc	atggtggctc	3960
atgcttgtaa	tcccagta	ttgggggctg	aggcgggtgg	atcacctgaa	gtcaggagtt	4020
caagaccagc	ctggccaaca	tgggtggaacc	ctgtctctac	taaaaaaa	aaatgcaaaa	4080
ttagctgggc	atagtggcat	gcgcctgtaa	tcctagctac	tcgggaggct	gaagcaggag	4140
aatcactgga	acccaggagg	cagaggttgc	agtgagctga	gatagtcca	ttgactcca	4200
gcctgggcaa	cgagtgaac	tccgtctcag	ggaataaaaa	aaaagagaga	gaaacagctc	4260
agcaagctaa	gaataggctg	gttctttatg	tgccaggcac	tataactaag	gttttctgtg	4320
ggttttctca	tataggcctc	atctgtgaga	ggtgtttctg	ttatgcttat	aattgaggaa	4380
acagtcctag	agaaattagg	caccccatcc	acagtcagat	agtcatatag	ccagcatgga	4440
gacgaggctc	tgagctccag	ccactgtcct	gtcatgttct	ctcagaacc	acatccctgt	4500
gtttagtccc	gcacttacag	acggctcgct	gggcgacatg	atcttcttcc	attcctacaa	4560

gaacccgggc	ctggctcctgg	acatcggtga	gggtgaggcg	ctagggccac	agaggagagg	4620
ggaaggaggg	ctggctgagt	ccaaggcctg	acttcggcgc	tcttccccca	gacctgaggc	4680
tcatcaacac	acaggccatc	tttgccaagt	gcactgggat	gatcattctg	ggcgggggcg	4740
tgggtcaagca	ccacattgcc	aatgccaaac	tcatggtgag	tgggggtggc	gcttcggccc	4800
actctgcaga	catgctgtgt	ggtgggccta	tgccatgtgc	tgggtagaca	gcatgaacta	4860
gacaggccag	gatccctgct	ccccgggact	gatgtttag	taggggagat	agcaaacaag	4920
tgacatccac	gtcagggggc	agtcattgct	acggggaata	ctaaatgatg	gcatgagaag	4980
agaaaggggt	gctgtccaac	aagaggtttt	ggaaggaggc	ttctggaagt	gtgagctggg	5040
agcaggggtt	tggggaggca	tctcccagga	gctatgtggt	tgtctcccg	gccaggagtt	5100
tgtgctgctg	tactatgatt	gagcttctgg	attgcaaagt	tcccaggaga	gggaacagcc	5160
attgcaaagg	ctctggggcg	cctgaagtaa	tccaggaaca	gctgggtacc	tggtaggggg	5220
aagggtggagt	ggtgagggcc	aggaggtgat	gcagggaggt	gccacaggga	gcctgctggg	5280
ccctgtgggc	tgaggcgggg	ctttggcttt	gcactgaga	gaagtgggag	aggacttgac	5340
tgggttccc	atgctcccc	tgggtggccat	gtggtgaaca	gatggtggca	ggtgagttag	5400
aactccagtc	caggacagtg	gtgaccatgc	agggatcagg	aggcaggcgg	tggttggatt	5460
tggagggctt	ctgaagatag	agttgctggc	agctcctgcc	ttgcagatgg	ggcagggttg	5520
ttgacacctg	gctgttgggt	ctggggaaac	acagccaatg	ttgccagca	gctctagtga	5580
ccccagacat	tgacatgggc	cctgtctggg	agcgaatgtc	tgtgaagggc	ttccttcac	5640
tgggacacac	ctctcagcct	gtttggctac	ggtgtcctcc	ctctgtgtct	gtctcctgtg	5700
actggctgac	tgggcccacc	gtgccccgc	ctccccacag	cggaaacggg	ccgactacgc	5760
tgtttacatc	aacacagccc	aggagtttga	tggctctgac	tcaggtgccc	gaccagacga	5820
ggctgtctcc	tggggcaaga	tccgggtgga	tgacacagccc	gtcaaggtaa	gcgctggctg	5880
ggtggggcat	aggggtctctg	ggacgatgag	tgtgggtccc	atggcttacc	caggttacc	5940
cctaccagag	tctatgctga	cgctcctctg	gtcttcccc	tgcttgggc	tgaaccttt	6000
gcccagaaga	tggatgcctt	catgcatgag	aagaacgagg	actgagcggc	tgcggtccca	6060
ggaaggctt	acccctctt	ctatttatta	atttgacagc	ccagcccctc	ccctactttt	6120
tggtcagcta	cgtctctaga	ataagatggt	atctgaagtc	cttccatgtc	tgtgtctcgg	6180
tccttgggtc	tgttgggtgg	tcccctggct	tcagcctgct	ccatcctctg	cctcataggc	6240
ctcctctcgc	cagcactgga	cgctgcctcc	catggcggtc	agcaggcagg	gctctgttgg	6300
gtggtaggcc	agcgactgca	ccacaccgga	accacaggc	agggccagag	cagcgacc	6360
ctgtggagcg	aggggtaggg	agtggttatc	tgtggtggg	ctgtaccctg	gtttctgagg	6420
tccctgggca	cccccatct	cagtcctgcc	tgaagccctc	agtcacctct	ccccgacctt	6480
cagccacctg	cctctaattg	cctcctagac	actgcaaaat	taatctacct	cagactgagc	6540
ccctcagtag	ctctgtccta	ccagggtgtc	aggccgcaag	tcttgggagc	ctcttattga	6600
ttttttat	tttaaaatag	cagagatggg	gtcttaccat	gttgcccagg	ctgggtctcga	6660
actcctggcc	tcaagtgatc	ctcctgcctt	ggcctcccaa	agtgttagga	ctacagggtg	6720
gagccaccat	gcctggcttt	gggagtcttt	ttctttttct	gtttttttt	gagatggagt	6780
cttgtctgtg	cgccaggctg	gagtgcaagt	gcgccatctg	ggctcactgc	aacctccgac	6840
tcctagttc	aagcgattct	cctgcctcag	cctcccaggt	agggtgggatt	acaggcacgc	6900
gctaccatgc	ccagctaatt	tttgtatttt	tagtacagat	ggggtttcac	catgttggcc	6960
aggatgatct	ctatctcctg	acctcgtgat	ccacccccct	cgccctccca	aagtgtggg	7020
attacagggtg	tgaaccacca	tgccctggccg	ggagtctttt	tcttgtacca	catgttcctc	7080
tatcagttat	tcctcttggc	tctgcttcta	gacctgtcc	agagactgct	gattttctgc	7140
cactaccatg	tttgagcat	gccttgctca	cagcttgctg	gttccctgcc	accagctggg	7200
ctccatcctg	tccatttggc	agccccaatg	atccccactt	cccctgggtc	caacacaatg	7260
taaacagttc	ctcaagcaag	ccatgcttcc	tctttccacc	ttgaaaatgt	cccttgatgt	7320
gcctgccctc	caaggcaact	tctgttctac	tgggcccata	agaaataggt	ggaacattct	7380
tgctacctta	gttcttaaag	caagagcttg	tccgccaagt	cttcaggggc	ccccgggttc	7440
cctccatcct	cttatggggc	ttagttcccc	tggccaagcc	cagcgctgat	gtctcctttg	7500
ccgagattcc	cccggctctg	acccactac	accaggatgg	tctgtttctg	gcctgactcc	7560
ccaccaggct	gggacatgtc	aaggacaggg	ctcaggctt	gaaaccatgc	acagggatgc	7620
taagatgtag	ctccagtttc	ttgaatgatt	gcagccctat	ctcacccaag	gttagacatg	7680
gccgtcggct	cccccttggc	caggggtcag	tgccagttgc	tggcctggc	atctgcagcc	7740
cagcctgacc	ccggatcttg	ccgcacctgc	cgccaccttg	aagcctttgt	ttcctgactg	7800
atgcatgcgc	aggctacacc	tcttaacata	tgtgttccc	tttgctgga	atgcccttc	7860
tgccctcatct	tctctctagc	ccaagctggg	cacggtgtct	caggcctgta	atcccagcac	7920
tttgggaggc	cgaggcgggt	gaatcacttg	aggtcaggag	tttgagacca	gcctggccaa	7980

catggtgaaa	ccctgtctct	actaaaaata	caaaaattag	ccaggtatgg	tggtaggggc	8040
ctgtaatccc	agctactcag	gaggctgaga	catgagaatc	acctgaaccc	tggggggaag	8100
aggttgcagt	gagctgagat	ggcgccactg	catttgccctg	ggcaatagtc	tcaaaaaaag	8160
aaaaaagggc	cggtgtgtgt	ggcttacgcc	tgtaatccta	gcacttgga	aggctgaggt	8220
gggtggatca	tgaggtcagg	agtttaagac	cagcctgacc	aacatagtga	aaccctgtct	8280
ctactaaaaa	tacaaaaatt	agctgggtgt	ggtggcacgc	acctataatc	ccaactactc	8340
aggagactga	ggcaggagaa	tcgcttgaac	ttgggaggcg	gagtttacag	tgagccaaga	8400
ttgcgccact	gcactctagc	ctggcgaca	gagcaagact	tgtctcaaaa	aaaaaaaaaa	8460
aaaaaaaaaa	aagatcctag	ccttcaggcc	ctggagtgac	tgaggtaagg	acagggtcga	8520
gatggggcag	gcactcagg	atgaagtagg	gctgggggca	cctcacctcc	accaggctcc	8580
agaagaacac	cttcccgctc	tcagaacagc	tgaccacatg	tgtgtcacgc	tcgctaggc	8640
agcagtcagg	cttgtattcc	tggttcttat	ggcccttgta	cctaagggtg	gacaggatcg	8700
gggggcttgg	tcctctccag	gggtgggaga	ggaggggaag	ggatccccac	gaccacaagg	8760
actcactcgc	ccagcagctc	ccctgtgtct	ttgtccaggga	gccgcaatgt	ggagtccagg	8820
ctggacacca	gggtgcactg	cccaccccg	ctgaagcagg	tgaggtgat	ggggccttgg	8880
gggaagggtg	ggtagggtgag	tgagggtggg	gtgcccctgg	ttggcccccc	atcttccctg	8940
cctgtcccac	atccccagcc	acactcactg	cccacgtagt	ctgagaagag	ctgcccctac	9000
cttaggtcat	agcgtctcac	gcgcccatcc	acggagctgc	aggagagggt	tagatccagcg	9060
ggaaccttga	ctacactcac	atggctccag	gcagccctgt	gccttcccag	cccagtgggc	9120
ctgctcttcc	agtgcacagg	agtggaaattc	tgaagctctg	gccttgagac	tcaggcccag	9180
ggccaattac	gtcctactcc	atcatttcca	agacccacac	cccctttcca	agcccttgga	9240
gtccttctga	ttcccccctt	tcttcccttt	gtttgagaca	gagttttgct	cttgttgcctc	9300
aggctggagt	gcaatggcat	gatcttggct	caccggaacc	tctgcctccc	gggttcaaga	9360
gattctcctt	cctcagcctc	cagagtagat	gggaatacac	gcacgacca	ccagccctg	9420
ctaattttgt	attttttagta	gagacggggt	ttctccatgt	tggtaggct	ggtctcgaac	9480
tcccaacctc	aggtgatccg	cccacctcag	cctcccaaag	tgctgggatt	acagggtgtga	9540
gccacccccac	ctggcccacat	tccccctttt	cctgcattct	ccagctcctc	ctcctcagta	9600
ctcagtccca	ccactttccc	cactacccag	caccagcatc	tagactgttc	tggtctccct	9660
gcacccccca	cagccaccag	agggagcact	tttcaaagta	cagttgaccc	atgaacaaca	9720
cggtttgaac	tgaacgcgtc	cacttatatg	tgatttttct	tctgcctcta	tcagctgtga	9780
gacaccaaga	tcaatccctc	ctcttccctc	tctcttgcct	tctcaacacg	aagatcttta	9840
tgacgatctc	ttcacttcca	cttaatgaat	agaaaatah	ttttttccac	caggcgcggt	9900
ggctcacgcc	tgtgattcca	gctctttggg	aggccagggc	aggtggatca	cgaggtcaag	9960
agatggagac	cctcctggcc	aacatggcga	aaccccgctc	ctactaaaaa	tacaaaaatt	10020
agctgggcgt	ggtggcacgc	gactgtagtc	ccagctacta	gggaggctga	ggcaggagaa	10080
tcgcctgaac	ctagaagtta	gaggttgacg	tgagccgaga	tcacgtcact	gcactccagc	10140
ctggcaacag	agcgagactg	cgtctcaaaa	aaaacaaaaa	ttcttcctta	tgattatttt	10200
tatgtattta	tttatttaatt	ttatttactt	attttgagac	ggagtcttgc	tctatcgccc	10260
aggagtgtag	tggtgcgatg	tcggctcaca	gcagctctg	cctcctgggt	tcactccatt	10320
ctcctgcctc	agcctcctga	gtagctggga	ctacaggcgc	ctgccactat	gcccggctaa	10380
ttttttgtat	tttttagtaga	gacggggttt	caccgtgtta	gccagaatga	tctcgatctc	10440
ctgacctcat	gatccgcctg	cctctgcctc	ccaaagtgtc	gggattacag	gcacgagcca	10500
cagcgccccg	cctatttttta	tttatttttta	gaaatcattt	tatctttttt	tttttgagat	10560
ggagtctcac	tttgtcgccc	aggctggagt	gcagtggcac	aatctcggct	cactgcaacc	10620
tccaactccc	gggttcaggc	gattctcctg	cctccgcctc	ccgagtggct	gggattacag	10680
gctcccgcca	ccacacctgg	ctaatttttg	cattttttagt	agagacgggg	tttcaccatg	10740
ttggccaggc	tgatctcaac	ctcctgacct	caagtgatct	gcccaccttg	gcctcccaaa	10800
gtgctgggat	tacagggtgtg	agccaccgtg	cccggccaga	ttattattat	ttttagagaa	10860
gtctgtcttt	caccacagcat	ggagtgcatt	ggtgcctcga	actcttgac	tcaagtgat	10920
cttccacttc	agcctcccaa	gtagctggga	ttacagctgt	gtgccactgt	gcccagctga	10980
gagtaggttt	taatctgagc	atgggggcag	ctatgattcc	ccgtagcacc	tggggtgaga	11040
ccaggtcctg	gctccactca	cctgcccagg	atctcgtgg	ctgacacctt	cacactggac	11100
acgccatctc	tgccctcatc	cagcgtctgc	actggctcag	gcctccgtga	gcggcaatcc	11160
caacagcgga	tactggaatc	aatagagcct	gtgaggccag	catgatgggt	aggtcagggt	11220
tggaggggga	gggcagcacc	ctgggcccc	gtgcttaggc	cccagactca	ccggacagga	11280
taactgtggc	ctcttcatta	aactgcaccg	tgttcacctt	ctgagaaagt	tatgccact	11340
cagaggaggc	tggacttttg	aggactggga	taaaggcagg	gttcccagtg	tcggttaaag	11400

caagggcgaa	ggggaggtga	aagggttttgg	gggaacagca	aggacagggg	ttggtgactg	11460
cctagcctgg	catgcggagt	gggggatcgt	catctgggga	agggatcctt	acggtgtaat	11520
gggggtggcc	gtgtcaccac	ctatgcgcta	atacgggtcc	cctccactca	aatgagggtc	11580
tccaggcttt	cactcaccac	tgcgtggccc	cggaatttgc	gcacgacctg	ccctgatgcc	11640
acatcccaca	gaaccaccgc	cttgtccccg	cgccgggagc	agagactact	gttgtcaaag	11700
gagctggagt	aaaggaggag	gaggatcagc	atcgacctcg	gatcccagc	tcagcgctcc	11760
catcccagcc	tgggtccccg	ctcaccgcgg	cgcatccagc	acctcgtagc	cgtggccgct	11820
gtacgtccgc	agcagcgctc	cccgaagcgg	gttccacagc	ttcagcgctc	tgtcactgcc	11880
gcacgtcagg	cagtaattgc	catccactgg	ggaacaccag	gcgggggtta	ctgggcccgc	11940
gatctcagga	ggcgggaatg	ggaccgcgaa	tgaagacgaa	ggcgctcacc	attaaatcgt	12000
acggctcgca	ctgccccctg	cccgcagctc	agcgtcttca	accgtttctg	cggcagctct	12060
ggaggccgcg	gctttggctc	agggaaagcc	atgctcccag	gactccttcc	ttgcagcctt	12120
aaatcgggtc	gtacggaaaa	ttccgcgcct	tagaaaccca	cgttgggtg	taaccttatt	12180
attgttcttc	ctgacctact	tcctgtttat	cacttccggg	ttcatcattt	tggcattttc	12240
gtgatcgggt	tggaaactatt	gaagcccgc	ttcaggttct	tttccccatt	ttccctttga	12300
aaggaagact	tctggcttct	cctaaatctc	cgttctcttg	gtaaggggag	tccaagcctc	12360
tgtctcagga	aacgggaatg	cgagggcctc	cggtgttact	ctaaaatccg	ccctcagctt	12420
gcacgccgga	agctgcgatt	cctgcagcgg	aagaggcgtg	atctggcctt	cgactcgcta	12480
tgtccactaa	caatatgtcg	gacccacgga	ggccgaacaa	agtgtcgagg	tgaggacccc	12540
agcgtcgtgg	gcacgggttc	gggttgtggg	tgtggatbgy	ggccctggga	agcgcctgtc	12600
tatcccgggg	gcaggacctg	agcgcgccct	accctcgagc	ctgtcgcagg	tacaagcccc	12660
cgccgagcga	atgtaaccgc	gccttggacg	acccgacgcc	ggactacatg	aacctgctgg	12720
gcatgatctt	cagcatgtgc	ggcctcatgc	ttaaggtggg	cggggttgag	cttctatggg	12780
tgtagttaga	cctgagaacg	aggcccgggg	gcgggtttgg	aatgaagcgg	ggtgtcttgt	12840
cattgctgat	ggggcgggac	ctgagatcgg	ccgggagtg	ggctgcgatg	acgctgggcc	12900
gagaaagccc	cagtctttgg	tgaagtcaag	gattcgagtc	aggttgggga	tgtggcagat	12960
tggctctgca	gtggggccag	gctttgaagc	acttggaga	ggagtgtgtg	aaaaagggca	13020
gggtcttaag	catgtgggat	gtcagagtct	ctcttgggtcc	tgagagacgc	aggccagaca	13080
gtaggactag	aaaccacgta	tctagagtat	gccatgagca	ggtgggactg	aggaattccg	13140
ggtggggcaa	ggtcccagct	gcatcagatg	gaatcagtg	gcatgatctg	gtgtctggaa	3200
agggtggctc	ggggactcat	tgttgtgcct	ttcactaac	tgcccaccca	cttacctttc	13260
cctagctgaa	gtgggtgtgt	tgggtcgctg	tctactgctc	cttcatcagc	tttgccaact	13320
ctcggaagct	ggaggacacg	aagcaaatga	tgagttagct	catgtgagac	ttgccctaca	13380
gaacaagtga	ctcttgagta	aggggtgggg	ggaccccagc	ctggccatcc	tagactgaca	13440
cctctctcct	gtctcaggct	gtccatctct	gccgtggtga	tgtcctatct	gcagaatcct	13500
cagcccatga	cgcccccatg	gtgataccag	cctagaagg	tcacattttg	gaccctgtct	13560
atccactagg	cctgggcttt	ggctgctaaa	cctgctgcct	tcagctgcca	tcctggatt	13620
ccctgaatga	ggcgcgtctg	gtgccccag	ctggatagag	ggaacctggc	cctttcctag	13680
ggaacacct	aggcttacct	ctcctggcag	ccttcccctg	cctgctgctg	ggggagatgc	13740
tgtccatgtt	tctaggggta	ttcatttgct	ttctcgttga	aaacctgttg	taataaagtt	13800
tttcaactct	gctgtcagcc	tcttctgttc	agtggggtgt	tcctcctacc	tggcgggaag	13860
ggctctagcc	ccatagccct	ggtgtggggc	cccagctcgg	aggcttctgg	ctgttcattt	13920
gcttacttca	taaaccttgt	gtcttaagtc	aggtgctagg	gacaagacag	tgacttctgc	13980
cctctggcaa	ctcaccagat	ggccctgctg	acctagataa	tctaggcttt	gtttccttt	14040
tttttttttc	ctttttaaga	aagaaaatgg	tcttgatctg	tcatgcaggc	tgagtgcagt	14100
ggcacaaatc	atgttcactg	cagcctcaaa	ctcctgggct	caagcaatcc	tcccacctca	14160
gcctgccacg	taactgggac	cacaaaatgc	tgctaccatg	cccagttaat	tcttgttttt	14220
tttgagacag	agttttgctc	ttgttgccca	ggctggagg	caatggcatg	atcttgatct	14280
cggctcactg	caacctccgc	ctcccaggtt	caagtgattc	tcctgcctca	gtctcccaag	14340
tagctgggat	tacaggcatg	tgccaccatg	cccagcta	ttttgtattt	ttacattttg	14400
tgtaaaatta	caaattttgt	gttttcaaac	ccgtctctac	aaaacaccc	atgttgccca	14460
ggctggcttc	aaactcccag	gcccagtgga	ttcaccagcc	tggccctccc	aaagtgcctg	14520
gattgcaggc	ttgagccact	gcgcctgccc	tgggctttgt	tttcttatca	gagaatgaac	14580
tggtaggaat	tgggaaaggc	atgaaagact	cggggtcctt	ccccacttgt	cagaccctct	14640
tttctctccg	gaacacccag	ggatccttct	caaccaggct	ggatcccatc	cctgggtactc	14700
caggggtatt	tacccaacgt	cccaatcccc	acagtatagg	actcttcac	agatcctcct	14760
cttaggcaag	ctaggtcctt	ccaggaccct	agcgtgaag	gtccatggga	cggacaccct	14820

ggattcccat	ggacacacta	caccggctag	gaaaaccgggcccccttagg	aaaagcactt	14880
ctgctcctac	cggcattaag	aggcattccg	tcttggaatt	cgggcattaa	gaggcattcc 14940
gtcttcata	cccgtgagac	gccagtgtca	cctttagccc	aaccagtgcc	ctgaggggtg 15000
cattttccta	ccttcctgta	acgacccccg	ggattgcccc	gggctacagc	ctctctcccc 15060
tgagcctcca	gaccgcgccc	tggccccgcc			15090

<210> 1045

<211> 3830

<212> DNA

<213> Homo sapiens

<400> 1045

ctgggcacgg	tggctcatgc	ctgtaatccc	agcacttttg	gaggctgagg	tgggcggatc	60
acgaggtcag	gagatcaaga	ccatcctggc	taacatggg	aaaccccgtc	tctactaaaa	120
atacaaaaaa	ttagctgggc	gtgtggcggg	cgctgtagt	cccagctact	tgggaggctg	180
aggcaggaga	ctggcgtgaa	cccgggaggt	ggagcttgta	gtgagccgaa	atcacaccac	240
tacactccag	cctgggcgac	agagcaagac	tccgtctcaa	aaaaaaaaaa	aaaaaaaaaa	300
aagctctctg	atttttagctg	ttaggtggga	gatgggttg	aggataccaa	agccagcttg	360
caggctatgg	ggataaagaa	aacacctgga	tttcggacct	actttatagg	tagaggtttg	420
cagacatgct	gagaaggatg	gatgtgggg	gtgagaaaag	gggagacagc	aagctgcgct	480
cctcattttt	aattttttatt	tatctatttt	tggacggag	tttcgctctg	ttgccagggc	540
tggagtgcag	tggcaccatc	tcagctcact	gcaacctcca	cctcccgggt	tcaagtgatt	600
ctcctgcctc	agcctcctga	gtagctggga	ttatgggtgt	gcgccaccac	acccggctaa	660
tttttgattt	ttttagtaga	gacgggggtt	cgccatgttg	tccaggctgg	tctctaactc	720
ctaacctcag	gtgatctgcc	ctccttggca	tcccaaagt	ctgggattac	aggtgtgagc	780
caccgcgccc	agccccaatc	cctatttttc	agtctagtgg	atgagtggag	ggtggggccg	840
tttgctgaga	tgcagaaaga	tcagggatag	gtggagaggg	agctgagggg	gcaactttga	900
ggtccaagcg	aggatgtcaa	ggaggatgtc	tgtctcctcc	aacaaggtag	gctcattcca	960
gcctcacggc	ttttgctggt	ctgtcttccc	atgtgcagga	aatggcctct	ctgcatcttc	1020
acatacgggg	attttctcag	ccttctggct	ttggctcaaa	tctcacctcc	ttggcgctct	1080
tcacccatcc	ctccaactaa	aatcccgaac	tccctcacct	aaagactcaa	attatcagt	1140
ttaaatcctg	attgcgctgg	gcgcggtggc	tcacacctgt	aatcccagca	ctttggggagg	1200
ccgaggcagg	cagatcacct	gaggtcagga	gttcgagact	agcctgacca	acatagtga	1260
accccatctc	tactaaaaat	acaagaatta	gccgggcgtg	atggctcatg	cctgtaatcc	1320
cagctactcg	ggaggctgag	gaggagaat	tgcttgaaac	tgggaggcag	aggttgcgat	1380
gagtggagat	cgcgccattg	cactccagcc	tgggcaacaa	gagcgaaaact	ctgtctccaa	1440
aaaaacaaaa	aaacaaaaaa	ggcctgatag	cactcaccac	tattgttaac	tttctatctt	1500
cccaatcaga	ttgtgggctc	cagtagggca	gggtccacat	cttggctctg	taaccacta	1560
aatccttagt	gcctggcacg	gagcccacca	tagagaatag	actacatgaa	ttgtagagt	1620
agtgaataat	cctgtttggc	gtatgcactg	ttaggagggt	gtgtttgaga	tacagatgac	1680
acccagggtc	tcacattctt	gcaggaggga	aagagacgtc	agccctgggt	cccagaagag	1740
gccactgacc	cagtgggagt	tcagggaagg	cttcccagag	gaggtggagg	tgacagctgc	1800
agctataagg	gaaggagaag	cagagcggtta	tgcagcatgt	gaaggctttg	gagactttgt	1860
agggcacgaa	ccgggctcac	tatcccatta	gacaaaagt	gctgaggaag	gatgaaactg	1920
tgtctaacte	tgccctgtga	ccgaaatctt	gtccatgggt	gacgctaag	aagtgacct	1980
cggccgggcg	cagtggctca	cgccgttaat	cctggcactt	tgggaggcca	aggcgggagg	2040
gtcacgagtt	caggagatcg	agaccatcct	ggctaacacg	gtgaaacccc	atctctacta	2100
aaaacagaaa	aaattagccg	ggtgtgggtg	cgggcacctg	tagtcccagt	tactcgggag	2160
gctgaggcag	gagaatggca	tgaacctggg	aggcagagct	tgcagtggag	cgagattgag	2220
ccactgcact	ccagcctggg	cgacagagcg	agactctgtc	tcaaaaaaaaa	aaaaaaaaaa	2280
aaaagtgacc	ctcataaaaa	aattagctgg	gcacgatggt	gcacactagt	cggaatgctg	2340
gggtgggagg	atgactgag	tccgggagtc	agaggttgca	ggggccgag	atcgcgctac	2400
agcactccag	cctggcgaca	gagtggagac	ctatcaaaaa	atagcagcag	gccaggcgcg	2460
gtggctcatg	cctgtaatcc	cagcactttg	ggaggctgag	gcgggcggat	cacgaggtca	2520
ggagatcgag	actaccctgg	ctaacacggg	gaaaccccg	ctctactaaa	aatacaaaat	2580
attagccggg	cgtgggtggc	ggcgccgtga	gtcccagtta	ctggggaggc	tgaggcagaa	2640
gaatggcggtg	aacctgggag	gcggagggtg	cagtggagccg	agatcgtgcc	actgcactcc	2700

agcctgggag	acagcgcaag	actctagctc	aaacaaacaa	acaaacaaaa	cagcaacaac	2760
aacaacaaaa	ccatcctccc	ctcccagagg	gacagacag	aaacgaatgg	gcgagtgcg	2820
ggccaagcag	tgggtctcca	gcagggtggc	ttaaaatagg	aatttttggt	ggggacgggtg	2880
gctcacacct	gtaatctcag	cacttttgga	agcccaggcg	ggcggtcacc	tgagggcaga	2940
accagcctcg	ccaacatggt	gaaatgccat	ctctactaaa	aataaaaaat	tagccaggcc	3000
tgggtggtgg	tgtctgtaat	cccagcaact	cgggaggctg	aggcaggaga	atcgcttgaa	3060
ccaggggggc	agaggttgca	atgagtcaag	attgcaccac	cgcactccag	cctgcgtaac	3120
aagagcgtgt	aactcttggt	tcaaaaataa	attaaataaa	taaataataa	aaataaaaaa	3180
gaatcttcat	tcatgggaag	tcgagaacac	atgaaaacaa	gtaaaggccg	aagcgcatgt	3240
gctcacgcct	gtaatcccag	cacttttgga	ggctgaggcg	ggcggataac	ctgaggctcg	3300
aagttcgaga	ccagcctgac	caacagggag	aaaccccgcc	tctactaaaa	atacaaaatt	3360
agccgggcat	ggcgggtgat	gccagtagtc	ccagctactc	gggaggctga	ggcaggagaa	3420
tcgcttgaac	ccggaatgtg	gagggttggt	tgagctgaga	tcgggcaatt	gcactccagc	3480
ctgggcaaca	agagcgaaac	cctgtatcaa	aaaaaaaaaa	aagaaaaaaa	aaggaagaaa	3540
aggcctaaag	gcgcggggcg	cgggtgggtc	cgcctgtaat	cccagcactt	tgggaggccg	3600
aggcggggca	atcacgaggt	caggagatcg	agaccagggt	aaaccccgtc	tctactaaaa	3660
atacaaaaaa	attagccggg	cgtggtgggt	ggcgcctgta	gtcccagcta	ctcgggaggc	3720
tgaggcagga	gaacagcggt	aacccggaaa	gcggagctgg	cagtgaagctg	agatcgcgcc	3780
actgcactcc	agcctgggtg	acagagcgag	actccgtctc	aaaaaaaaaa		3830

<210> 1046

<211> 20245

<212> DNA

<213> Homo sapiens

<400> 1046

gcctttccag	ggccggggaa	ccccaggagg	aagctgctga	gccatgggag	cctacgcgcg	60
ggcttcgggg	gtctgcgctc	gcggtgcct	ggactcagca	ggcccctgga	ccatgtcccc	120
cgccctgcgg	ccaccgctcc	gcctctctg	ctttttcctt	ttgttgctgg	cggtgcgcg	180
tgtcggggcc	gggggatacg	aggtgagtg	ggcctccgag	ctgaaacgta	caggaggcag	240
agtgaacccc	agaatacagt	ctagaggtgt	gggtgggtct	gtcctgtggg	tgtctagtga	300
atggctgatg	atatgacagt	gtggtctgag	tgcgtgcttt	gtgtcattgc	gggtctggc	360
tgtgcgcata	tgagtatagg	actgtgtctg	attgtacctg	cctccgtgtc	tccgggatgc	420
ttgcctagac	tttgtctgca	cttaactgtg	ggattggagg	ggcaggaggt	ggcagggggg	480
gagcagtgtg	tgtgtggggg	gagggtgctg	ctgagagctg	ggactctgga	gtctgcctga	540
aattccagcc	tagctcttac	acttcctgag	tgtgtgacgt	tgggcaagtc	acctatcctc	600
tctaagcctc	agtgccttca	tctggaaact	ggggataaca	tcaccccacc	tcccacgggtg	660
gccgtctgct	gtcggcaaat	gctgaacaaa	catcagctac	ttctattatt	attttcccg	720
agtgtaaatg	agagctgccc	tgtgggggtg	tgcaaaagtgg	agttgtact	atgagcacia	780
ctatgtatgt	gtgtgtcctg	cctgggaggg	cctggcctcc	tctgcacata	ggcgagatca	840
ggcctctctg	agtcactcac	ctctagatca	agacttactc	tgacgcccc	gacctcgggg	900
gttattgaca	aggtatgtgt	gtttggggtc	cctgtgcaga	catgcccac	agtcagccg	960
aacatgctga	acgtgcacct	gctgcctcac	acacatgatg	acgtgggctg	gctcaaaacc	1020
gtggaccagt	acttttatgg	aagtgagtag	aggatgggga	ctggtccctg	ggatccccat	1080
ggtcctgtga	atccctctgg	gtcctggaca	ttaggggtgg	gccagtgtga	ccctaataac	1140
cagggtttgg	gtcctctgtg	ctaggaataa	cccccttgcc	ttgctgttc	cctgagagcc	1200
ttatccctgt	tatccacagt	caagaatgac	atccagcacg	ccggtgtgca	gtacatcctg	1260
gactcgggtc	tctctgcctt	gctggcagat	cccacccgtc	gcttcattta	cgtggagatt	1320
gccttcttct	cccgttgggt	gcaccagcag	acaaatgcca	cacaggaagt	cgtgcgagac	1380
cttgtgcgcc	agggtagacc	taccccaagg	aagtgaagaa	aggaagccca	gcccagcttc	1440
tgcttctgca	tctctggttt	ctgagatttg	tcatgccacg	tgcaagctgt	ataacatgcg	1500
tgtcgctcgg	cctgcctgga	ctctccattt	ggagacctcc	tatacatccc	acaaagcccc	1560
acctgctctg	cctcctctgg	gaagcctgcc	atgcaggggg	cctctttccc	atatctggga	1620
actatggcct	gggagcgacc	cctcttgctc	ttccgcagaa	aatgtgtaca	caggcaggct	1680
ttcacattcc	cagtatcacc	caccctactc	ccactcctgg	ctctgaccgc	tgacctgac	1740
cttgctgtgc	ctggcacagg	gcgcctggag	ttcgccaatg	gtggctgggt	gatgaacgat	1800
gaggcagcca	cccactacgg	tgccatcggt	gaccagatga	cacttgggct	gcgctttctg	1860

gaggacacat	ttggcaatga	tgggcgaccc	cgtgtggcct	ggcacattga	ccccttcggc	1920
cactctcggg	agcaggcctc	gctgttttgcg	caggtgcgac	ccgggacctc	tcttggggccc	1980
acttcttcac	tcactctggc	tcctccctcg	cccagtcaaa	ccccgccctc	tccttgcaat	2040
ctcacaagga	ccaggcccgag	gcctaggcct	gttgaagccc	tgcccccttga	gtgagccgta	2100
aagccagtgg	cttttgagct	ctggcctcag	ccggctatgc	ccagcccagg	ctgacccagc	2160
tccggctggc	tccgccctct	cccctaatag	gcccctcttg	gtgttctggc	cccacccact	2220
agctcgggtc	ctggctcctc	cctaaaccgg	gtggcaagtg	gatgcctagg	ctgccttaaa	2280
aacaggttca	ttacctgtgc	tcagacccca	tccatcctca	ggctgtggaa	gggggaacct	2340
cattcctgga	gtcaggcctg	ctctgcgctt	tgacagtgct	ggggagggtga	acctgggttc	2400
tgatgttggg	cccgcctct	ccctgtagc	ccaagggtgg	gagttctgaa	acttcccaaa	2460
gcttggaat	aagctggagg	cctctctgtt	tcagccctac	gtgtttttgt	ttttgttttt	2520
tgagacaggg	tcttgctgtc	atccaggctg	gagtgcagtg	gtgcaatcct	aactcactat	2580
agcctcaatc	tcccggattc	aagcgattct	cctgtctcag	ccccctagt	agatggact	2640
acaagagcgc	accactacgc	ctggctaatt	tttaaatttt	ttgtagacag	tctgcccgtg	2700
ttgtgcaggc	tgggtctcaaa	aactcctggg	tttaagtgat	cctcctgttt	tggcctccca	2760
gaaggctggg	atcataggca	agagccacca	cctgcacctg	gcactgcttt	ttaacctgtg	2820
ctctgacctg	cccctcccaa	gcagagggga	gtttgggtgg	gagagggctg	ggcactaatt	2880
cacactgcct	tttccctccct	catccccaga	tgggcttcga	cggcttcttc	tttgggcgcc	2940
ttgattatca	agataagtgg	gtacggatgc	agaagctgga	gatggagcag	gtgtggcggg	3000
ccagcaccag	cctgaagccc	ccgaccgcgg	acctcttcac	tggtaggggg	cttgggtgag	3060
gcagggccag	ccatgggtgc	acacactcag	aagggccctg	ggcttgatat	ctgctctgtt	3120
gtcactgtcc	tgggaattcct	atagtctggg	aacaaaggcc	ctgcatttcc	ttttgcattg	3180
ggacacaaat	tctgaagccc	atcctgggtg	ggacatggcc	ggctttgaaa	ccagggaagg	3240
tctgggtgat	gggaccccc	ttgaacttgg	tgtgacctgc	aggtgtgctt	cccaatgggt	3300
acaaccgcgc	aaggaatctg	tgctgggatg	tgctgtgtgt	cgatcagccg	ctggtggagg	3360
accctcgcag	ccccgagtac	aacgcccaag	agctggctga	ttacttccta	aatgtggcca	3420
ctgcccaggt	aaccctgggtg	tccagaacct	tcgagtcagg	tataaacaat	acaatgagct	3480
ctttccatgg	tacaggcatc	ccctaacacg	ttctccttat	ttttaatttt	tttgagacag	3540
tcttactctg	tcacccaggc	tggagtgcag	tgggtgcgac	tcggctcact	gcaacctctg	3600
cctcctgggt	tcaaacaagc	acatccagct	aatttttgta	tttttgact	ggggtctcat	3660
catgttgtcc	aggctgggtc	caaactcctg	agctcaagtg	atctgcttgc	ctcggcctcc	3720
caaagtgcgc	ggattacagg	catgagccac	cgcacctggc	ctctattttt	aacattttta	3780
tttatttatt	attatttttt	tttttttgag	acagagtctt	gctctgtcac	ccaggctgga	3840
gtgcagtggc	atgatctcag	ctcactgcaa	cctccgcctc	ccgggttcaa	gcgattctcc	3900
tgcctcagcc	tcctaagaag	ctgggattag	aggcacctgc	caccacaccc	agctaatttt	3960
tgtattttta	gtagacaggg	tttcgtcatg	ttgaccaggc	tggctctgac	ctcagggtgat	4020
ctgcccgcct	caacctccca	aagtgtggg	attacagggtg	tgggccactg	tgctctgctt	4080
atttttaaga	tttttattga	gaattccttt	ttattttttt	ttagactcac	tctgtcgccc	4140
aggctggagt	gcagtggcac	gatctcggct	cactgcaacc	tccacctact	gggtccaagc	4200
gattcttctg	cctcagcctc	ccgagtagct	gggattacag	gtgcccacca	ccatgctcgg	4260
ctaagtttta	tgtcttttta	gtagaaaggg	gggtccacca	tattggccag	gctgggtctcg	4320
aactcctaac	cttttgaccc	acagccttgg	cctctcaaa	tgctgggatt	acaggcgtga	4380
gccaccgcgt	ccagccttta	acatttttat	aattaaaaaa	cattattttt	tcacagagat	4440
aaggtctcac	catgtggccc	aggctgggtc	caaactcctg	aactcaagtg	atcctcctgc	4500
cttggcctcc	caaagtgcta	ggatataggt	gtgagccacc	atgcctggca	taacacgttc	4560
tccttaaaaa	aatttttttt	tcctttcttt	aaaaattgat	ggctgggcat	gggtggctcac	4620
gcctataatc	ccagcatttt	gagaggccga	gatgggcaga	tcactctgaag	tcaggagttc	4680
aagaccagca	tagccaaaat	gacgaaac	tgtctctact	aaaaatacaa	aaattagtcg	4740
gggtgtgggtg	cgcacgcctg	taatcccagc	tacttgggag	gctaaggcaa	gagagtcgct	4800
tgaacctggc	aggtggagg	tgcagtgagc	cgagatcacg	tcacttcact	ctagcttggg	4860
cagcagagtg	aaactctgtc	tcaaaaaaaa	aattgtttta	gattaatttt	tttttttttt	4920
cttgagacag	ggtcttgctg	tgtggcccag	gttggcttta	aactcctaga	ctcaagcgat	4980
cctcctgcct	cagtctcctg	agtagctggg	attacagggtg	tgagcccctg	taatcatgtt	5040
ctcatgcccc	ctggaggaag	atgctattct	attcaccatc	acaatgtccc	cctcctggat	5100
ttatgtgcat	tcctcattag	aagagatagc	ataggctggg	caagagatag	catggcatgg	5160
tgactggatg	ccctcttcta	ggtagtgggt	ccaagagaac	tgctcaacaa	ctggtggcta	5220
cttttatctg	tgtccccacg	ctcccaagtg	ccataacccc	acccatgcct	gtgcacccaa	5280

catccttgac	cccatatata	tcaaaacaca	gctatacaca	gggatggccc	aggacctct	5340
ggcttcagga	ctccccctct	gcctgcaggg	ccggtattac	cgcaccaacc	acactgtgat	5400
gaccatgggc	tcggaacttc	aatatgagaa	tgccaacatg	tggttcaaga	accttgacaa	5460
gctcatccgg	ctggtaaagt	cgcaggtcag	tgcgcctacc	ctgtggtacc	cttgtgcaca	5520
tgtgcgcttg	catccggggg	ccttgggtta	tgtgcatagc	tctcagtgtc	gtctttgttt	5580
tctattgttc	tattgtgggtc	attctataac	aaatgaccac	acacttagca	gctcaaaaca	5640
acagaaatac	attgtcttac	agttctgtag	gtaagaagtc	cagcatgagg	ccgggcgcaa	5700
tggctcatgc	ctgtaatccc	agcatgttgg	gaggctgagc	cgggcagat	acgaggtcag	5760
gaattcgaga	ccagcctgac	caacatggtg	aaacgctgtc	tctactaaaa	atacagaaat	5820
tagctgggtg	tgatgggtgc	tgctgttaat	cccagctact	cgggagcctg	aggcagggga	5880
atctcttgaa	tccgggaggc	ggagggttga	gtgagcggag	attgtaccac	tgcactccag	5940
cctggggccac	agagaaagac	tctgtctcaa	aaaaaaaaaa	aaaaaaaaaa	aatccagcct	6000
gagtctcacc	aggctataat	caaggtgttg	gcaaggctgt	gttccttctg	cagtctctag	6060
gagagaatat	aatttccttg	ctttttccaa	catctagaag	ttaccacat	tcaaaatcta	6120
ttcttggtc	catcttcaaa	gccagccaca	tagcatcttt	ctgccctgt	ttctgtaatc	6180
acatcccttt	ctctcattct	cacctcttct	gcctctctct	tccacatttt	atttattttac	6240
ttagagacgg	tgatgggtgc	tgctgcctag	cttgagctgtc	agtggcgtgc	tctcggtctca	6300
ctgcaacctc	cgcctcctgg	gttcaagtga	ttcttctgtc	tcagcctccc	aagtagctgg	6360
gactacagtc	gcgtgccacc	acgcccagct	aatttttgta	tttttagtag	acagggtttc	6420
accatgttgg	ccaggatggt	ctcgatttct	tgacctcgtg	atccaccccg	ctcggcctcc	6480
caaggtgctg	ggattacaga	tgtgagccac	tgtgtggcct	aatttcccta	ctttaagttt	6540
ggctgatgaa	caacctcaat	tccatctgca	accttaatc	cccttttgcc	atgtaatcta	6600
atgtggtaat	aggttctggt	gatcaggaca	tggacacttt	tgggcagtta	tcatttttacc	6660
caacacagat	gtgttagtgt	tttgactaa	gtggcctgtg	gctgtggctg	tgtgcacagt	6720
cagtcactct	catcagcaca	gaaacttgtc	tcccctctcc	catctcagac	accccttccc	6780
atcaatcttg	tcctcactac	ggtgcaatct	ccattcccac	cttccactcg	ctcccagcac	6840
tgctatttca	ccaaaacagc	tcttttatgt	catttatatt	tatttatatt	ttctttttaa	6900
aattttattt	atttatattt	ttattgagac	aagagtcttg	ctttgtcacc	caggctggag	6960
tgcagtggca	tgatcttgcc	tcatggcaac	cttgccctcc	tgggttctag	tgattctcct	7020
gcctcagcct	cccaagtagc	tgggactaca	ggcatgtgcc	accaaccctg	gctaattttt	7080
gtatttttag	tagaggcagg	gtttcactat	gttggcagg	ctggtctcaa	aactcctgac	7140
ctcaggtgat	ccgtccgcct	tggcctccca	aagtgttggg	attgtaatct	gagggtggcg	7200
gatcacttga	agacaggagt	tggagaccag	cctggccaac	atggtgaaac	cttgtctcta	7260
ctaaaaatac	tacaaattag	gtgggcgtga	tggcactcat	ctgtaagacc	agctactcgg	7320
caggctgagg	caggagaatc	gctggaacct	gggaggcgga	gtttgcagcc	agctgagatc	7380
gtgccactgc	actccagctt	gggcgaaaga	gtcagactca	gtctcaaaaa	aaaaaaaaaa	7440
aaaaaaaaagtt	tattgagcac	ctactgtgta	cattggggga	cacagctcgt	gcaaaacaaa	7500
catccttttc	ctcacatagg	tcacttttct	gttctccac	cttgctcagg	tgaaagtgc	7560
cctccattca	ttataaaaaat	tgtgtctagg	ccgggcacgg	tggctcatgc	ctgtaatcc	7620
agcacttttg	gaggctgagg	cgggcggatc	atgaggtcag	gagatcgaga	ccatcctggc	7680
taacacggtg	aaactccgtc	tctactaaaa	aatgcaaaaa	attagccggg	tgtggtggcg	7740
ggcacctgta	gtcccaggta	ctcatgaggc	tgaggctgga	gaatggcgtg	aaccaagag	7800
gtggagcttg	cagtgagctg	agattgagcc	actgcactac	agcctgggca	acaaagtaag	7860
actccgtccc	aaaaaaaaaaa	agttgtgttt	tttggttaaca	atctgacagt	cctgcaaaac	7920
gattattcct	gccctataat	gtcacactta	gtttttccac	aaaagttttt	aataataaag	7980
ttggaattat	tgtaaaaagtt	tagtaaaaatt	tcaggttttat	tcttgcattct	cgaatcct	8040
tttaaaaaaag	gctagtgggtc	atgtttgact	tcagccaaaa	ttcatttttca	cacccaacca	8100
ttggcttgca	cgccaaatat	gtatttagag	aaactgaacc	tatgggatgc	atgaatgtgc	8160
acacatgtgt	ggaagtgtgg	gccccaggga	aggtgcggac	tcccaggggc	tactccgtc	8220
gcctccccca	gcagcaggca	aaaggaagca	gtgtccatgt	tctctactcc	acccccgctt	8280
gttacctctg	ggagctgaac	aaggccaacc	tcacctggta	tttggggaaa	ctggggagct	8340
tggggggggt	ggcatgcccc	gtgggtcact	accctgccct	caatgccct	gccgtgtag	8400
gtcagtgaat	catgacgact	tcttccctta	cgcggatggc	ccccacagt	tctggaccgg	8460
ttacttttcc	agtcggccgg	ccctcaaacg	ctacgagcgc	ctcagctaca	acttcttgca	8520
ggtgggtagg	agccgggcta	gagggggcat	gcagccccga	ggcccgacag	gctgggcgcc	8580
ccaacatacc	cctctgcctc	caggtgtgca	accagctgga	ggcgtgggtg	ggcctggcgg	8640
ccaacgtggg	accctatggc	tccggagaca	gtgcaccct	cagtaagtgt	cgggcccaag	8700

aggggaagag	gtttgcggct	gaagttggaa	accaccccta	ggccgcccc	ctcgagtttc	8760
ttcttttttt	tttttttttt	tttttttttt	gagacggagt	ctcgatttgt	ctcccaggct	8820
ggagtgcagt	ggtgcgatct	cggctcactg	caagctccac	ccccgtggt	cacgccattc	8880
tcctgactca	gcctcccag	tagctgggac	tacaggcgcc	caccaccacg	cccggcta	8940
tttttgatt	tttagtagag	acggggtttc	accatgttag	ccaggatggt	ctcgatctga	9000
cctcgtgatc	cgcccgcctc	ggtctctcaa	agtgtgagg	ttacaggcgt	gagccaccgc	9060
ccccagccgt	cctcgagttc	cttcttaaag	cctctaagaa	tcctgccccg	cagcaccgga	9120
cctttcgctt	ccccttgggg	tctcagctga	gtcccacaga	acctcaccgg	actcattgtc	9180
tatgagcaga	tgaggcgatg	gctgtgctcc	agcatcacga	cgccgtcagc	ggcacctccc	9240
gccagcacgt	ggccaacgac	tacgcgcgct	agcttgggag	aggctggggg	ccttgcgagg	9300
tgcgcggggc	gagacttggt	agacacgggg	gtggagacag	gaaggggagg	ggccaggggc	9360
tgggaaagg	gacagagaca	ggtgtgaggc	gtagccgaga	gccctgtggc	ggggctacaa	9420
gggctcgtgg	gggcggggct	tgtaggaggc	ggggaagat	acaggaacgg	ggcggggcct	9480
tggagggggg	aaggaggcgg	ggcgtgggca	agaggaggcg	gagacagcta	tggggatatag	9540
tcaagggcag	cagggtgggg	ctagaagggg	ttttggggcg	actcttgagg	gaggcgggac	9600
agagaccgga	acggggcggg	gcctgaggag	aggggaggag	tcaggcctgg	cgtcctgaac	9660
ccaccggtcc	ctttgcgctc	ttccgcagg	tcttctgagc	aacgcgctgg	cgcggtcag	9720
aggcttcaaa	gatcacttca	ccttttgcca	acagctaaac	atcagcatct	gcccgtcag	9780
ccagacggcg	gcgcgcgtga	gccgggacgg	gaggggtgga	tctagggcag	atgggcttta	9840
gagggggtag	ttgaaaaatg	tttttgagg	actatacagg	agtgaatta	cgtgggctgc	9900
gaagctgggt	cagcagagag	aacaacgc	ctcgaggggg	cttggcctta	agtgccgtga	9960
ccacactagg	accagccagg	ggtgtttctg	tgcaaagtgg	gtgggtttgg	agaaggcctg	10020
ctgtgaccca	tgcctctct	gacccccgc	tcccagttc	caggtcatcg	tttataatcc	10080
cctggggcgg	aaggtgaatt	ggatgtacg	gctgccggtc	agcgaaggcg	ttttcgttgt	10140
gaaggacccc	aatggcagga	cagtggccag	cgatgtgagc	ccaaacaacg	aatattcccc	10200
cgctgggact	cctccccag	tgggcatttc	ctcatcgccc	ccatggatat	cgctgtcttc	10260
catgaatacc	tcccactcat	gcatactct	tccccctct	tgtatcttct	ccctgccc	10320
cttaatatca	gtctcccctt	gggaacatat	gcctcctgtg	agtggctctc	cctttttttt	10380
ttttttttga	gacggagtct	cgctctgtca	cccaggctgg	agtgcagtgg	cgcgatcttg	10440
gctcacttca	aactccgcct	gctggattat	agggatgagc	caccgtgcct	ggctggctct	10500
ccattttaat	accccgttc	cccaggaaaa	tttattgctg	tttatggaca	tctccttc	10560
tccagaaaa	gtcctcccc	aaacctcttc	ctcccccgag	aacctgcctc	aagggtttct	10620
tcccctactt	cctccttcac	tcccccgact	ccatggctct	tccaccctcc	cggtgggttt	10680
ttttttccac	ctgggtgaatc	ttctctgcaa	tcatctcctt	ggaatctgact	gtcccccca	10740
ccacacacac	ctccatttcc	tttccccatc	tcaggactct	tttccctcct	tgagtttttt	10800
gtctccatgc	atgtatagct	ttccatgggt	actcttgact	cagtttccct	cctcctttat	10860
ccgaggtggt	aatatttccc	agctcagaca	gccaggcgca	ccctccggag	ctgtgttct	10920
cagcctcact	gcccgcctg	ggcttcagca	cctattcagt	agcccagggtg	cctcgctgga	10980
agccccaggc	ccgcgcacca	cagcccatac	ccagaagatc	ctgggtcccct	gctttaacca	11040
tcgaaaaatga	ggtgagaccc	catttcaatc	ccctttcctg	ctcctgtgac	aaatttgaag	11100
tgtcatggtg	agctgtgtgg	actctgggtc	agcagggtccc	taggttatg	acctcctgtc	11160
acaactcccc	tcatgtgtg	tccttgagca	agtgcacctt	gtctgagcct	cagtgtcctt	11220
tcctgggact	gttatgagga	cccagtggtg	tcatgggtga	cacttgacag	acatgtcaga	11280
gttgggtggca	ggtggtggtt	cgcaattttg	gcagggacgt	ttcagggaag	gtgttcccga	11340
taaaggtgac	atttaagata	tgacctgagg	gagggagccg	tgtggctatt	tgaagggaaga	11400
gagatccagg	tggggagaga	ataacaggga	taaaagcctt	cgagcaggag	agtgtgcaga	11460
attccaggag	ccacaaggag	ctcagtgtgg	ctgaagcagg	gtgaacgggt	gacagggtcag	11520
accttgaggg	ccttgaggac	caacaggaag	actttggctt	ttgcccagtc	ttgttgctca	11580
tgtgtctact	cctagctctt	tgggaggctg	aagcgggagg	atcacttgag	cccaggagtt	11640
gtcccagcta	attgggaggc	ccagatggga	ggtttgtttg	agctggggag	ttcgagggtg	11700
cagtgaagta	tgattgtccc	actgtactcc	atcctggcaa	cagagtga	ccctgtctga	11760
aaagaataat	aataaaatag	gccaggcatc	gtggattata	cctgtaattc	tagcaccacg	11820
ggaggctgag	gtgggtggat	ctactgagct	caggagtttg	agaccagctt	gggcaacatg	11880
gtgaaaccca	gtctctacaa	aaaattagct	gggggtgggtg	gtacacgtct	gtaatcccag	11940
ctacttgggg	gctgaggaag	gaggattgct	tgaaccagg	tggcagaggt	tgcagtgagc	12000
cgagatcatg	ccactgcact	ccagcctggg	tgacaaagtg	agaccctgtc	tcaataaaaat	12060
aaaataaaaag	aagttctgca	gtaggactgt	tcatgttagg	aagaaaaacat	ctttttcata	12120

tttttattaa	aataaaataa	aagaagttaa	aacgttccca	caggccccta	aaagtcttgt	12108
gagttctggc	attgtggttc	acacatcaga	tgcccaagtt	ggccctggtc	cgcagcagag	12240
gagggctttg	atgggactta	gggtatcaca	ggtgtgctct	ggctgttggt	gggaacagac	12300
tgtaggcagc	cagtgtggaa	gtgcagggac	ctggaagggg	ttgactgcac	tggccctgga	12360
aggccctggt	aagaggtggt	gaggttgaa	ataaggttgg	gggggcccgg	cgcggtggct	12420
cacacctgta	atcccagcac	tttgggaggg	cgaggcaggg	agatcacgag	gtcaggagat	12480
ggagaccatc	ctggctaaca	cggtgaaacc	ctgactctac	aaaaatacaa	aaaatttagc	12540
caggcgtggt	ggcgagcatc	tgtagtccca	gttactcggg	aggctgaggc	aggagaatgg	12600
cgtgaaccgg	gaaggcggag	cttgcaagtga	cctgagatgg	cgccactgca	ttccagcctg	12660
ggcaacagag	tgagactccg	tctcaaaaaa	aaaaaaaaga	aaaaaaaaga	aaaaaagaaa	12720
aggctggggt	gggcacgttg	gctcatgcct	gtaatccag	gactttggga	ggctgaggct	12780
ggcaggtcac	ctgaggtcag	gagtttgaga	ccagcctggc	caacacagtg	aaacctcgtc	12840
tgtaccaaaa	atacaaaaat	taactgggcg	tggtggtaca	cacttgtagt	cctagctact	12900
cgggagggag	aggcaggaga	atcacttgaa	cccaggaggt	ggaggttgca	gtgagccgag	12960
atcatgccac	tgactccag	cctgggggac	agagcaagac	tctgtctcaa	aagaaacaa	13020
aaaaaaaaatc	aggttgaatg	gctgggtgtg	gtggactgct	tgagcccagg	agttggacac	13080
aaccgcggag	caacatagtg	ggacccccat	ctctagaaaa	caaattttaa	tttttttttt	13140
tttaatttag	tagagatgga	gtttcactat	gttggccagg	ctggtatcaa	actcctcacc	13200
tcaggttatc	cacccaadt	ggtctcccaa	agttctggga	ttacaggtgt	gagccaccac	13260
gctcggccct	aaaaaaaaatt	taaattgaga	aaaaaagggg	ccaggcgtgt	tggctcatgc	13320
ctgtaatccc	agcacttttg	gaggctgagg	ggggggtgga	tcatgaggtc	aggagttcga	13380
gaccagcatg	gccaatattg	tgaaaccctg	tctctaataa	aaatacaaa	attagccagg	13440
tgtggtggca	tgtgcctgta	gtcccagcta	ttcaggaggg	tgagtcagga	gaattgcttg	13500
aaccgcggag	gcggaggttg	cagtgaagcca	agatcacgcc	actttctgca	ctccagcctg	13560
ggcgatagag	cgagactcag	tctcaaaaaa	aaaaaaaaaa	caaaaaaccc	aggccaggtg	13620
cagtggctca	cgcctgtaat	cccagccctt	tgggaggcca	aggcgggtgg	attacctgag	13680
gtcaggagtt	ggagaccagc	ctgaccaaca	tgccgaaacc	ccgtctctac	taaaaataca	13740
aaaattagcc	aggcatggtg	gcatgtgcct	gtaatccag	ctaccagga	ggctgaggca	13800
ggagaattgc	tggaaccagg	gggcagaggg	tgtagtgagc	aggattgcg	cccctgcact	13860
ccagcctggg	cgacacagca	agtttctgtc	tcaaaaaaaa	aaaataaaaa	tccggctggg	13920
tgtagtggtg	tctgtctgta	atcctagtac	tttgggaggg	caaggtgagc	agatcacttg	13980
agttcagggg	tttgagacca	gcctggccaa	catggtgaaa	ccctgtctct	actaaaaata	14040
tgaaaattag	ccaggcgggg	tggtgggcac	ctgtaatccc	agctacttgg	atagctgagg	14100
cacgagaatc	acttgaaccc	gggaggtggg	gggtgcagtg	agccaagatt	gcaccactgt	14160
actctagcct	gggctacaga	gtgagactca	gtctcaaaaa	aaaaaaaaga	aaaaaagaaa	14220
attaaaaaaaa	gaaaacacac	acacatacac	acacaaaacc	atctgtggac	ccttttctgc	14280
ccagcacatc	cgggcaacgt	ttgatcctga	cacagggctg	ttgatggaga	ttatgaacat	14340
gaatcagcaa	ctcctgctgc	ctgttcgcca	gaccttcttc	tggttaaggga	agatcaccag	14400
gcctgagggg	ggggtggttg	tgctcgccat	ggagctaggg	ccccttacct	gactctcacc	14460
tgccccaact	ccaggtacaa	cgccagtata	ggtgacaacg	aaagtgacca	ggcctcaggt	14520
gcctacatct	tcagacccaa	ccaacagaaa	ccgtgccttg	tgagccgctg	ggctcagatc	14580
cacctggtga	aggtcaggga	ctaggaatga	tgagtgggca	gttgggaatg	gggaagttat	14640
ggagcccaag	agggtggttg	gccatgtgta	ggtgagggg	aggggaggat	ttacttttcc	14700
ttcagatcag	tggtgctaaga	cccacagatc	agcgggggaa	atatttgagg	gtccttccat	14760
agaattgata	ttcatagctg	gtcgtatgag	agtcctccca	taggacacat	catacaaagc	14820
cattcacatc	tgctgtggac	gtttacatac	ttagttttgg	aaattggggg	tggggcattc	14880
ccacttggcc	catgaatcag	gagagccaaa	tatcactgct	tgaagaattc	accaaagtct	14940
gtagtaagag	gagcttctat	ctggagtga	tatttgagag	tccacccttg	gattgatttg	15000
gtttgggtga	gtctcagggg	gaatgcctat	gggtgcactc	ggctaggaac	agtggtttcc	15060
cagggcctct	cattgatgtt	tgactttcat	agatgacaaa	actcacattt	gtccacattc	15120
aagagcctcg	cgtttcatgt	gagtcctttt	gagatgaatg	tctgcatatc	tgtatatagt	15180
tttgcttgtt	ctaacaagat	tacccaaatt	aactgtgact	agaataagat	agaagattat	15240
tttcttctaa	caaaaaagct	ggctgttagt	tcagagaaag	tggggtggtt	ccataaatc	15300
ccaggacctc	ctcttctatc	ttgttgctct	gccttcccca	atattcagtt	tccacctcat	15360
ggtccaagat	agctgctgaa	gctccagccg	ccacatttgt	gtttgagtca	gtagcagagg	15420
gacaggggca	aggaacattg	ttgacaccac	ttggatcact	ttctatgggg	caaactggtc	15480
actcagctac	tgatagcctc	aggaagact	ggacaatata	gtctttatcc	caggtagcca	15540

tgtgccaa	gc	tagaatccta	ttctatggg	g	caatgggtgaa	caggaggcgt	ttatgccacg	15600
ctcaagagt	g	atgtggtaag	ccagatgcag	tggctcatgc	ctgtaatcac	agcacttttg		15660
gagactgaag	caggaggatc	gctgagcata	ggagtccaag	accagggtggg	agattttgct		15720	
gattaggtgc	ctacatagt	atgccctgtc	tcaaaaaaaaa	aaaaaaaaaa	agaggccggg		15780	
tgcagtggct	cacgcctgta	atcccagcac	tttgcgaggc	agaggcaggc	agatcatctg		15840	
aggtcaggag	ttcaagacaa	gtctggccaa	catggataga	aaccccgtct	ctactaaaaa		15900	
tacaaaaatt	agccagggt	ggtggcagg	acctgcaatc	cctctactcg	ggaggctgag		15960	
gcaggagaat	tgcttgaacc	caggaggcgg	aggttgcaat	gaggcaagat	tgtgccactg		16020	
cactccatcc	tgggcaacaa	gagcaaaact	ctgtctcaaa	aaaaaaaaaa	gaaaaaagaa		16080	
ttatgtgggc	caggcgccgt	ggctcacgcc	tgtaatccca	gcacttggg	aggccgaggc		16140	
gggctgatca	cgaggtcagg	agatcgagac	catccttgct	aacacggtga	aaccccactct		16200	
ctactaaaaa	tacaaaaaat	tagccgggtg	tgggtggcggg	tgcctgtagt	cccagctact		16260	
cgaggaggctg	aggcaggaga	atggtgtgaa	cccgggaggc	ggagcttgca	gtgagccgag		16320	
atcgcgccac	tgcactccc	cctgggcaaa	agagcgagac	tccgtctcaa	aaaaaaaaaa		16380	
aaaaaaaaagaa	ttatgtggcg	gtgactgaag	gttgacctg	atgtaggcct	taatggggtt		16440	
tatggccagg	gttgggggac	atttgtagga	ctcacctctg	ctcaggtaga	gactgacatc		16500	
cacctcacc	gtgtgccgc	agacaccctt	ggtgcaggag	ggcaccaga	acttctcagc		16560	
ttggtgttcc	cagggtggtt	gcctgtaccc	aggacagcgg	cacctggagc	tagagtgggtc		16620	
ggtggggccg	atacctgtgg	ggtgagtggc	acaggctggg	agaggggtgt	ggaagcaagg		16680	
gcagaggggt	ttatccaagg	ctcacaacct	tgccatccca	ttgggtacag	cgacacctgg		16740	
gggaaggagg	tcatcagccg	ttttgacaca	ccgctggaga	caaagggacg	cttctacaca		16800	
gacagcaatg	gccgggagat	cctggagagg	aggtgggggg	tgactgagag	cactgagggg		16860	
gtggtctgtg	gtgtgttggg	gcccaggggg	ggtgagggaa	atttgcctgt	tacatgagt		16920	
tgggagacag	aggacgaagg	gagagtgaag	ggcggggag	ccaggcaggg	tgcagtggct		16980	
cacgcctgta	atcccagcac	tttgggaagc	cgaggcgggc	agatcacaa	gtcaggagat		17040	
cgagactatc	ctggctaaca	tggtgaaacc	ccgtctctac	taaaaataca	aaaaaatcag		17100	
ccgggtgtgg	tggcgggcac	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatg		17160	
gcgtgaagcc	gggaggcgga	gcttgcaagt	agccgagatc	gcgccactgc	actccagcct		17220	
gggtgacaga	gcgagactcc	atctcaaaaa	aaaaaaaaaa	aaaaaaagag	ttggggagcc		17280	
agatcccaa	cctgatcagc	tcacccccaa	ccccaggcgg	gattatcgac	ccacctggaa		17340	
actgaacac	acggacccc	tggcaggaaa	ctactatcca	gtcaacaccc	ggatttgcat		17400	
cacggtagct	ctcccccatc	ctgcacctcc	ccacctcgat	agaaagggaa	tcacccctta		17460	
tctgcagcat	ctcaaagctg	cctgggggtt	gggttgactg	ccctctactt	tcacccctta		17520	
actcccagga	tggaaacatg	cagctgactg	tgctgactga	ccgctcccag	gggggcagca		17580	
gcctgagaga	tggctcgctg	gagctcatgg	tgagtgggtc	agagcccat	ccgagccagg		17640	
gtcctcccaa	cctggacccc	tgctggacct	tgaaggctgt	ttctggccca	gttctctgct		17700	
ttcaggcccc	actaaagtga	ggactccgtt	tcttctttt	cttctctttg	agacggagtt		17760	
ttgctctgtt	tgtccaagct	ggagtgaat	agtactatct	cagctcactg	caacctctgc		17820	
ctcctgggtt	caagtgtatt	tcttgccctc	gccttccgag	tagctgggct	tacaggcaca		17880	
caccatcacg	cccggtctaat	tttgggtatt	ttagtagaga	tggggtttca	ccatgttggc		17940	
caggctggtc	tccaactcct	tacctcaggt	gatccactca	cctcggcctc	ccaaatggct		18000	
gggattacag	gcgtgaacca	ccgctcccgg	ccaaggactc	catttctgtg	tgtggctttt		18060	
cctctccggt	tttctccatc	tccctggccc	gctccctcca	cgctctggcg	tgccatatcc		18120	
aggccccct	gttaggcatt	tacctccttc	cggcctggtt	cccatgccta	cttggatcct		18180	
gcctctgctg	gggttgccct	accagaccct	caccttcate	ctcatccgtt	cctcccaccc		18240	
tttaatttct	tttgacattc	ccacacgccc	ttacccagtt	tctggcccaa	ggacacccac		18300	
aaacccacga	ctctcaccct	ctcctggcca	ctctcccccc	aggtgcaccg	aaggctgctg		18360	
aaggacgatg	gacgcggagt	atcggagcca	ctaattggaga	acgggtcgggg	gcgtgggtg		18420	
cgagggcgcc	acctggtgct	gctggacaca	gccagggtg	cagccgccc	acaccggctc		18480	
ctggcgaggc	aggaggtcct	ggccccctcag	gtggtgctgg	ccccgggtgg	cggcgcgcgc		18540	
tacaatctcg	gggtcctctc	gcgcacgcga	gtgaggggca	gcggggtagg	cagagaggac		18600	
cggattgaag	tctaaccagg	agccggggtt	gggtgcggag	ttctctaggc	tcagcgggga		18660	
tccattttgg	cataattagc	ccaaaacctt	cgggcgaacc	ccatcccctg	ggcagtcctc		18720	
gcccagtgcc	agcccagtc	caacccccct	ggactgtgta	gaggcacagc	cctagctcat		18780	
gcccctaacc	caccaactca	cctccggccc	cgccatttcc	acttagccc	cgccctctca		18840	
ccgccccag	gctctgtcct	gcctcaccca	gccccgcggc	ttcagcccc	ccgtaactcc		18900	
caaagtctca	ggtcacatca	gttctgctcc	atcgggactc	gaaccctaag	cttgggaccg		18960	

acccatctcc	ccattggctc	agtcctccct	gtcacggccc	tggccgctcc	tctcggctga	19020
gccttgcccc	tctccggcga	aaccccgccc	ctacaacct	gccctgcctc	ctgacctggc	19080
tcggccccgc	ccttctccat	ccaggccccg	cccctctcca	actcagcccc	gccctctctc	19140
ccgcagttct	cagggctgcg	cagggacctg	ccgccctcgg	tgcacctgct	cacgctggcc	19200
agctggggcc	ccgaaatggt	gctgctgctc	ttggagcacc	agtttgccgt	aggagaggat	19260
tccggacgta	acctgagcgc	ccccgttacc	ttgaacttga	gggtgagaag	ggcaaaattg	19320
agaaggagat	cggagagagg	caagagagag	ggagagaaga	gaaacctggc	tttgccccaa	19380
ctcatctggg	cccatccctc	tccccgcagg	acctgttctc	caccttcacc	atcacccgcc	19440
tgaggagagc	cacgctgggt	gccaaccagc	tccgcgaggc	agcctccagg	ctcaagtgga	19500
caacaaacac	aggtggggcc	ctggtcaggg	gtaggggaag	ggtaggtgct	tacctggggc	19560
cggcaggttg	gggcaatgtg	tgaggcatgg	gatgttggcc	aggacccaaa	aaggtcatga	19620
gggtatgggg	cagagtccag	acccaggtta	gggtttaaa	ggatctgaaa	tgggtgctgg	19680
aaaccaggaa	tgggtcttga	ggtttgtggg	tgtgttttag	tccaagaagc	aagatttgaa	19740
aatccccatc	catgtctagt	tctgggaggg	tgttcatcac	ccctgggggtc	agattgaggg	19800
tacgaggaca	gtggccagat	tgagggtatg	aggacattgg	acctgggggt	ggtattcggg	19860
gccgggggaa	caggttaaga	gtctgggatt	gaggcccttg	agacagattc	ggggatatgc	19920
agctgtgtct	agaccaggga	gaggaagcat	cgtggggtag	gtcagaggaa	gtctgcacct	19980
cctcactcct	ccttccccct	gcacctctcc	aggccccaca	ccccaccaa	ctccgtacca	20040
gctggacccg	gccaacatca	cgctggaac	catggaaatc	cgcactttcc	tggcctcagt	20100
tcaatggaag	gaggtggatg	gttaggtctg	ctgggatggg	ccctccaagc	ccaagcctcc	20160
tgctccgggg	gcagaccaga	ctctgactct	cctcttgggg	ctgctgccat	taaaacgcta	20220
ctactaagac	tcaggtcgct	ctgtg				20245

<210> 1047
 <211> 9796
 <212> DNA
 <213> Homo sapiens

<400> 1047						
gcctttccag	ggccggggaa	ccccaggagg	aagctgctga	gccatgggag	cctacgcgcg	60
ggcttcgggg	gtctgcgctc	gcggctgcct	ggactcagca	ggccctgga	ccatgtcccg	120
cgccctgcgg	ccaccgctcc	cgcctdctg	ctttttcctt	ttgttgctgg	cggctgcccg	180
tgctcggggc	gggggatacg	aggtgagtg	ggcctccgag	ctgaaacgta	caggaggcag	240
agtgaacccc	agaatacagt	ctagaggtgt	gggtgggtct	gtcctgtggg	tgtctagtga	300
atggctgatg	atatgacagt	gtggtctgag	tgcgtgcttt	gtgtcattgc	gaggtggc	360
tgtgcgcata	tgagtatagg	actgtgtctg	attgtacctg	cctccgtgtc	tccgggatgc	420
ttgcctagac	tttgtctgca	cttaactgtg	ggattggagg	ggcaggagg	ggcagggggg	480
gagcagtgta	tgtgtggggg	gaggtgctgg	ctgagagctg	ggactctgga	gtctgcctga	540
aattccagcc	tagctcttac	acttcctgag	tgtgtgacgt	tgggcaagtc	acctatcctc	600
tctaagcctc	agtgccttca	tctggaaact	ggggataaca	tcacccacc	tcccacggtg	660
gccgtctgct	gtcggcaaat	gctgaacaaa	catcagctac	ttctattatt	attttcccg	720
agtgtgaatg	agagctgccc	tgtgggggtg	tgcaaagtgg	agttgtatct	tgagcacaa	780
ctatgtatgt	gtgtgtcctg	cctgggaggg	cctggcctcc	tctgcacata	ggcgagatca	840
ggcctctctg	agtcactcac	ctctagatca	agacttactc	tgcagccccc	gacctcgggg	900
gttattgaca	aggtatgtgt	gtttgggggtc	cctgtgcaga	catgccccac	agtgagccg	960
aacatgctga	acgtgacct	gctgcctcac	acacatgatg	acgtgggctg	gctcaaaacc	1020
gtggaccagt	acttttatgg	aagtgagtag	aggatgggga	ctggtccctg	ggatccccat	1080
ggtccctgta	atccctctgg	gtcctggaca	ttagggtggg	gccagtgcta	ccctaataatc	1140
cagggttttg	gtcctctgtg	ctaggaataa	cccccttggc	tctgcgttcc	cctgagagcc	1200
ttatccctgt	tatccacagt	caagaatgac	atccagcacg	ccggtgtgca	gtacatcctg	1260
gactcgggtca	tctctgcctt	gctggcagat	cccacccgtc	gcttcattta	cgtggagatt	1320
cccttcttct	ccggttgggt	gcaccagcag	acaaatgcca	cacaggaagt	cgtgcgagac	1380
gtgtgcgccc	agggtgagcc	taccccaagg	aagtgaagag	aggaagccca	gcccagcttc	1440
tgcttctgca	tctctggttt	ctgagatttg	tcatgccacg	tgcaagctgt	ataacatgcg	1500
tgctgcctcc	cctgcctgga	ctctccattt	ggagacctcc	tatacatccc	acaaagcccc	1560
acctgctgtg	catcctctgg	gaagcctgcc	atgcaggggg	cctctttccc	atatctggga	1620
actatggcct	gggagcgacc	cctcttgtcc	ttccgccaga	aatgtgtaca	caggcagggt	1680

ttcacattcc	cagtatacacc	caccctactc	ccactcctgg	ctctgaccgc	tgaccctgac	1740
cttgccgtgc	ctggcacagg	gcgccctggag	ttcgccaatg	gtggctgggt	gatgaacgat	1800
gaggcagcca	cccactacgg	tgccatcggt	gaccagatga	cacttgggct	gcgctttctg	1860
gaggacacat	ttggcaatga	tgggcgaccc	cgtgtggcct	ggcacattga	ccccttcggc	1920
cactctcggg	agcaggcctc	gctgttttgcg	caggtgcgac	ccgggacctc	tcttgggccc	1980
acttcttcac	tcactctggc	tcctccctcg	ccca#caaa	ccccgcctc	tccttgcaat	2040
ctcacaagga	ccaggcccag	gcctaggcct	gttgaagccc	tgccccttga	gtgagccgta	2100
aagccagtgg	cttttgagct	ctggcctcag	ccggctatgc	ccagcccagg	ctgaccacgc	2160
tccggtcagg	tccgcccctc	cccctaatag	gcccctcttg	gtgttctggc	cccaccact	2220
agctcgggtc	ctggctcctc	cctaaaccgg	gtggcaagtg	gatgcctagg	ctgccttaaa	2280
aacaggttca	ttacctgtgc	tcagacccca	tccatcctca	ggctgtggaa	gggggaacct	2340
cattcctgga	gtcaggcctg	ctctgcgctt	tgacagtgtc	ggggaggtga	acctgggttc	2400
tgatgttggg	cccgcctctc	ccctgctagc	ccaaggtggt	gagttctgaa	acttccccaa	2460
gcttggaat	aagctggagg	cctctctgtt	tcagccctac	gtgtttttgt	ttttgttttt	2520
tgagacagg	tcttgctgtc	atccaggctg	gagtgcagt	gtgcaatcct	aactcactat	2580
agcctcaatc	tcccgatttc	aagcgattct	ctgtctcag	ccccctagt	agatgagact	2640
acaagagcgc	accactacgc	ctggctaatt	tttaaatttt	ttgtagacag	tctgcccgtg	2700
ttgtgcaggc	tggctcctca	aactcctggg	tttaagtgt	cctcctgttt	tggcctccca	2760
gaaggctggg	atcataggca	agagccacca	catcgaccta	gcactgcttt	ttaacctgtg	2820
ctctgacctg	cccctcccaa	gcaggggga	gtttgggtgt	gagagggctg	ggcactaatt	2880
cacactgcct	tttctcctct	catccccaga	tgggcttcga	cggcttcttc	tttgggcgcc	2940
ttgattatca	agataagtgg	gtacggatgc	agaagctgga	gatggagcag	gtgtggcggg	3000
ccagaccagg	cctgaagccc	ccgaccgcgg	acctcttcac	tggtaggggg	cttgggagg	3060
gcagggccag	ccatgggtgc	acacactcag	aagggccctg	ggcttgatat	ctgctctgtt	3120
gtcactgtcc	tggaaattcct	atagtctggg	aacaaaggcc	ctgcatttcc	ttttgcattg	3180
ggacacaaat	tctgaagccc	atcctgggtg	ggacatggcc	ggctttgaaa	ccagggaagg	3240
tctgggtgat	gggccacc	ttgaacttgg	tgtgacctgc	aggtgtgctt	cccaatggtt	3300
acaaccggcc	aaggaatctg	tgtctgggat	tgtctgtgtg	cgatcagccg	ctggtggagg	3360
accctcgag	ccccgagtac	aacgccagg	agctggctga	ttacttccca	aatgtggcca	3420
ctgcccagg	aaccctgggt	tccagaacct	tccgtcccg	tatatacaata	caatgagct	3480
ctttccatgg	taacggatgc	ccctaacacg	ttctcttat	ttttaatttt	tttgagacag	3540
tcttactctg	tcacccaggc	tggagtgcag	tgggtgcgatc	tcggctcact	gcaacctctg	3600
cctcctgggt	tcaaacaagc	acatccagct	aatttttgtg	tttttgact	ggggtctcat	3660
catgttgctc	aggtggtct	caaactcctg	agctcaagt	atctgcttgc	ctcggcctcc	3720
caaagtgcg	ggattacagg	catgagccac	cgcacctggc	ctctattttt	aacattttta	3780
tttatttatt	attatttttt	tttttttgag	acagagtctt	gctctgtcac	ccaggctgga	3840
gtgcagtggc	atgatctcag	ctcactgcaa	cctccgcctc	ccggttcaa	gcgattctcc	3900
tgcctcagcc	tcctaagaag	ctgggattag	agggcactgc	caccacaccc	agctaatttt	3960
tgtattttta	gtagacagg	tttcgtcatg	ttgaccaggc	tggctctgac	ctcaggtgat	4020
ctgcccgcct	caacctccca	aagtgtctgg	attacagggt	tgggccactg	tgcctagtct	4080
atttttaaca	tttttattga	gaattccttt	tttatttttt	ttagactcac	tctgtcgccc	4140
aggctggagt	gcagtggcac	gatctcggct	cactgcaacc	tccacctact	gggtccaagc	4200
gattcttctg	cctcagcctc	ccgagtagct	gggattacag	gtgccacca	ccatgctcgg	4260
ctaagtttta	tgtcttttta	gtagaaagg	ggtttcaca	tattggccag	gctggtctcg	4320
aactcctaac	cttttgaccc	acagccttgg	cctctcaaa	tgctgggatt	acaggcgtga	4380
gccaccgcgt	ccagccttta	acatttttat	aattaaaaaa	cattattttt	tcacagagat	4440
aaggctctac	catgtggccc	aggctggtct	caaactcctg	aactcaagt	atcctcctgc	4500
cttggcctcc	caaagtgcta	ggatataggt	gtgagccacc	atgcctggca	taacacgttc	4560
tccttaaaaa	aatttttttt	tcctttcttt	aaaaattgat	ggctgggcat	ggtggctcac	4620
gcctataatc	ccagcatttt	gagaggccga	gatgggcaga	tcactctgaag	tcaggagttc	4680
aagaccagca	tagccaaaat	gacgaaaccc	tgctctact	aaaaatacaa	aaattagtcg	4740
ggtgtggtgg	cgcagcctg	taatccagc	ctactgggag	gctaaggcaa	gagagtcgct	4800
tggaacctggc	aggtggagg	tgcagtga	cgagatcacg	tcacttcaact	ctagcttggg	4860
cagcagagt	aaactctgtc	tcaaaaaaaa	aattgtttta	gattaatttt	tttttttttt	4920
cttgagacag	ggtcttgctg	tgtggcccag	gttggcttta	aactcctaga	ctcaagcgat	4980
cctcctgcct	cagtctcctg	agtagctggg	attacagggt	tgagcccctg	taatcatgtt	5040
ctcatgcccc	ctggaggaag	atgctattct	attcaccatc	acaatgtccc	cctcctggat	5100

ttatgtgcat	tcttcattag	aagagatagc	ataggctggg	caagagatag	catggcatgg	5160
tgactggatg	ccctcttcta	ggtagtggg	ccaagagaac	tgctcaacaa	ctgggtggcta	5220
cttttatctg	tgtcccccacg	ctcccaagtg	ccataccccc	acccatgcct	gtgcacccaa	5280
catccttgac	cccatataca	tcaaaacaca	gctatacaca	gggatggccc	aggatccttc	5340
ggcttcagga	ctccccctctt	gcctgcaggg	ccggtattac	cgcaccaacc	acactgtgat	5400
gaccatgggc	tcggaacttc	aatatgagaa	tgccaacatg	tggttcaaga	accttgacaa	5460
gctcatccgg	ctggtaaagt	cgcaggtcag	tgcgcctacc	ctgtgtgtacc	cttgtgcaca	5520
tgtgcgcttg	catccggggg	cdtgggtta	tgtgcatagc	tctcagtgtc	gtctttgttt	5580
tctattgttc	tattgtggtc	attctataac	aaatgaccac	acacttagca	gctcaaaaca	5640
acagaaatac	aattgtcttac	agttctgtag	gtaagaagtc	cagcatgagg	ccgggcgcaa	5700
tggtcatgac	ctgtaatccc	agcatgttgg	gaggctgagc	cgggcagatc	acgggtcag	5760
gaattcgaga	ccagcctgac	caacatggtg	aaacgctgtc	tctactaaaa	atacagaaat	5820
tagctgggtg	tgatgggtgcg	tgcctgtaac	cccagctact	cgggagcctg	aggcagggga	5880
atctcttgaa	tccggggaggc	ggaggttgca	gtgagcggag	attgtaccac	tgactccag	5940
cctggggccac	agagaaagac	tctgtctcaa	aaaaaaaaaa	aaaaaaaaaa	aatccagcct	6000
gagtctcacc	aggctataat	caaggtgttg	gcaaggctgt	gttccttctg	cagtctctag	6060
gagagaatac	aattttcctg	ctttttccaa	catctagaag	ttaccacacat	tcaaaatcta	6120
ttcttggctc	catcttcaaa	gccagccaca	tagcatcttt	ctgacccgt	ttctgtaatc	6180
acatcccttt	ctctcattct	cacctcttct	gcctctctct	tccacatttt	atctattttac	6240
ttagagacgg	agtctcgctc	tgtcgcccag	gctggagtgc	agtggcgtgc	tctcggtctca	6300
ctgcaacctc	cgcctcctgg	gttcaagtga	ttcttctgtc	tcagcctccc	aagtagctgg	6360
gactacagtc	gcgtgccacc	acgcccagct	aatttttgta	tttttagtag	acagggtttc	6420
accatgttgg	ccaggatggt	ctcgatttct	tgacctcgtg	atccaccccg	ctcggcctcc	6480
caaggtgctg	ggattacaga	tgtgagccac	tgtgtggcct	aatttcctta	ctttaagtgt	6540
ggctgatgaa	caacctcaat	tccatctgca	accttaattc	ccttttgcc	atgtaatcta	6600
atgtggtaat	aggttctggg	gatcaggaca	tggacacttt	tgggcagtta	tcattttacc	6660
caacacagat	gtgttagtgt	tttgactaa	gtggcctgtg	gctgtggctg	tgtgcacagt	6720
cagtcaactc	catcagcaca	gaaactgtgc	tcccctctcc	catctcagac	accccttccc	6780
atcaatcttg	tctcactac	ggtgcaatct	ccattcccac	cttccactcg	ctcccagcac	6840
tgctattttca	ccaaaacagc	tcttttatgt	catttatttt	tatttatttt	ttctttttta	6900
aattttattt	atattattat	ttattgagac	aagagtcttg	ccttgtcacc	cagggtggag	6960
tgcatgtgaa	tgatcttgcc	tcatggcaac	ctctgcctcc	tgggttctag	tgattctcct	7020
gcctcagcct	cccaagtagc	tgggactaca	ggcatgtgcc	accaaccctg	gctaattttt	7080
gtatttttag	tagaggcagg	gtttcactat	gttgccagg	ctggctctca	aactcctgac	7140
ctcaggtgat	ccgtccgcct	tggcctccca	aagtgttggg	attgtaatct	gaggtgggag	7200
gatcacttga	agacaggagt	tggagaccag	cctggccaac	atggtgaaac	cttgtctcta	7260
ctaaaaatac	tacaaattag	gtgggcgtga	tggcactcat	ctgtaagacc	agctactcgg	7320
caggctgagg	caggagaatc	gctggaacct	gggagcgga	gtttgcagcc	agctgagatc	7380
gtgccactgc	actccagctt	ggcgacaga	ctcagactca	gtctcaaaaa	aaaaaaaaaa	7440
aaaaaaaaagt	tattgagcac	ctactgtgta	cattggggga	cacagctcgt	gcaaaacaaa	7500
catccttttc	ctcacatagg	tcactttctt	gttctctcac	cttgctcagg	tgaaagtgca	7560
cctccattca	ttataaaaaat	tgtgtctagg	ccgggcacgg	tggctcatgc	ctgtaatccc	7620
agcacttttg	gaggctgagg	cgggcggatc	atgaggtcag	gagatcgaga	ccatcctggc	7680
taacacgggt	aaactccgtc	tctactaaaa	aatgcaaaaa	attagccggg	tgtgggtggg	7740
ggcacctgta	gtcccaggta	ctcatgaggc	tgaggctgga	gaatggcgtg	aaccaagag	7800
gtggagcttg	cagtgaagctg	agattgagcc	actgcactac	agcctgggca	acaaagtaag	7860
actccgtccc	aaaaaaaaaaa	agttgtgttt	tttggttaaca	atctgacagt	cctgcaaaac	7920
gattattcct	gccctataat	gtcacactta	gtttttccac	aaaagttttt	aataataaag	7980
ttggaattat	tgtaaaagtt	tagtaaaatt	tcaggtttat	tcttgcattc	ctgaaatct	8040
tttaaaaaag	gctagtggtc	atgtttgact	tcagccaaaa	ttcattttca	cacccaacca	8100
ttggcttgca	cgccaaatat	gtatttagag	aaactgaacc	tatgggatgc	atgaatgtgc	8160
acacacttg	ggaagtgtgg	gccccaggga	aggtgcggac	tcccaggggc	tactccgtc	8220
gcctccccc	gcagcaggca	aaagggaagc	gtgtccatgt	tctctactcc	acccccgctt	8280
gttacctctg	ggagctgaac	aaggccaacc	tcacctggta	tttggggaaa	ctggggagct	8340
tgggggggtt	ggcatgcccc	gtgggtcatg	accctgcctt	caatgcccct	gccgctgtag	8400
gtcagtga	catgacgact	tcttccctta	cgcggatggc	ccccaccagt	ctggaccgg	8460
ttacttttcc	agtcggccgg	ccctcaaacc	ctacgagcgc	ctcagctaca	acttctctgca	8520

ggtgggtagg	agccgggcta	gagggggcat	gcagccccga	ggccccgacag	gctggggcgcc	8580
ccaacatacc	cctctgcctc	caggtgtgca	accagctgga	ggcgctgggtg	ggcctggcg	8640
ccaacgtggg	accctatggc	tccggagaca	gtgcacccct	cagtaagtgt	cgggcccaag	8700
aggggaagag	gtttgcggct	gaagttggaa	accaccccta	ggccgcccc	ctcgagtttc	8760
ttcttttttt	tttttttttt	tttttttttt	gagacggagt	ctcgatttgt	ctcccaggct	8820
ggagtgcagt	ggtgcgatct	cggctcactg	caagctccac	ctcccgggtt	cacgccattc	8880
tcctgactca	gcctcccag	tagctgggac	tacaggcgcc	caccaccacg	cccggcta	8940
tttttgtatt	tttagtagag	acgggggttc	accatgttag	ccaggatgg	ctcgatctga	9000
cctcgtgac	cgcccgcctc	ggtctctcaa	agtgtctggga	ttacaggcgt	gagccaccgc	9060
ccccagccgt	cctcgagttc	cttcttaaa	cctctaagaa	tcctgccgc	cagcacccga	9120
cctttcgctt	ccccttgggg	tctcagctga	gtcccacaga	acctcaccgg	actcattgtc	9180
tatgagcaga	tgaggcgatg	gctgtgctcc	agcatcacga	cgccgtcagc	ggcacctccc	9240
gccagcacgt	ggccaacgac	tacgcgcgcc	agcttgccg	caggctggggg	ccttgcgagg	9300
tgcgcggggc	gagacttggg	agacacgggg	gtggagacag	gaaggggagg	ggccagggcc	9360
tgggaaaggg	gacagagaca	ggtgtgaggg	gtagccgaga	gccctgtggc	ggggctacaa	9420
gggctcgtgg	gggcggggct	tgtaggaggc	ggggaaagat	acaggaacgg	ggcggggcct	9480
tggagggggg	aaggtagggg	ggcgtagggc	agaggaggcg	gagacagcta	tggggtatag	9540
tcaaggcgag	cagggtgggg	ctagaagggg	ttttggggcg	actcttgagg	gaggcgggac	9600
agagaccgga	acggggcggg	gcctgaggag	aggggaggag	tcaggcctgg	cgctcctgaac	9660
ccaccggtcc	ctttgcgctc	ttccgcaggt	tcttgcgagc	aacgcgctgg	cgcggtctcag	9720
aggcttcaaa	gatcacttca	ccttttgcca	acagctaaac	atcagcatct	gcccgcctcag	9780
ccagacggcg	gcgcgc					9796

<210> 1048
 <211> 3844
 <212> DNA
 <213> Homo sapiens

<400> 1048						
tcattgcctgt	aatcccagca	ttttgggagg	ccgaggcggg	cagatcacaa	ggtcaggaga	60
tcaagaccat	cctggcta	acggtgaaac	cctgtctcta	tcttagta	actttattaa	120
ttagtctggg	cgtgtggcg	gcgcctgtag	tcacagctac	ttgggaggct	gaggcaggag	180
actggcgtga	accggggagg	tggagcttgt	atgagccga	aatcacacca	ctacactcca	240
gcctgggcca	cagagcaaga	ctccgtctca	aaaaaaaaaa	aaaaaaaaaa	aaagctctct	300
gatttttagct	gttaggtggg	agatgggttg	gaggatacca	aagccagctt	gcaggctatg	360
gggataaaga	aaacacctgg	atttcggacc	tactttatag	gtagagggtg	gcagacatgc	420
tgagaaggat	ggatgtgggg	tgtgagaaaa	ggggagacag	caagctgcgc	tcctcatttt	480
taatttttat	ttatctattt	ttgagacgga	gtttcgctct	gttgcccagg	ctggagtgca	540
gtggcaccat	ctcagctcac	tgcaacctcc	acctcccggg	ttcaagtgat	tctcctgcct	600
cagcctcctg	agtagctggg	attatgggtg	tgcgccacca	caccgggcta	atttttgtat	660
tttttagtag	agacgggggt	tcgccatgtt	gtccaggctg	gtctctaact	cctaacctca	720
ggtgatctgc	cctccttggc	atcccaaagt	gctgggatta	caggtgtgag	ccaccgcgcc	780
cagccccaat	ccctattttt	cagtctagt	gatgagtga	gggtggggcc	gtttgctagg	840
atgcagaaa	atcagggata	ggtggagagg	gagctgagg	ggcaactttg	aggtccaagc	900
gaggatgtca	aggaggatgt	ctgtctctc	caacaaggta	ggctcattcc	agcctcacgg	960
cttttgctgt	tctgtcttcc	catgtgcaga	aatggcctct	ctgcatcttc	acatacgggg	1020
attttctcag	ccttctggct	ttggctcaaa	tctcacctcc	ttggcgctct	tcacccatcc	1080
ctccaactaa	aatcccgaac	tcctccacct	aaagactcaa	attatcctgt	ttaaatcctg	1140
attgcgctgg	gcgcggtggc	tcacacctgt	aatcccagca	ctttgggagg	ccgaggcagg	1200
cagatcacct	gaggtcagga	gttcgagact	agcctgacca	acatagtga	acccatctc	1260
tactaaaaat	acaagaatta	gccggggcgtg	atggctcatg	cctgtaatcc	cagctactcg	1320
ggaggctgag	gcaggagaat	tgcttgaac	tgggaggcag	aggttgcgat	gagtgagat	1380
cggccattg	cactccagcc	tgggcaacaa	gagcgaaact	ctgtctccaa	aaaaaacaaa	1440
aaacaaaaaa	ggcctgatag	cactcaccac	tattgttaac	tttctatctt	cccaatcaga	1500
ttgtgggctc	cagtagggca	gggtccacat	cttggctctg	ttcaccacta	aatccttagt	1560
gcctagcacg	gagccacca	tagagaatag	actacatgaa	ttgtagagt	agtgaataat	1620
cctgttggcc	gtatgcactg	ttaggagggt	gtgtttgaga	tacagatgac	acccagggtc	1680

tcacattctt	gcaggagggg	aagagacgtc	agccctgggt	cccagaagag	gccactgacc	1740
cagtgggagt	tcaggggaagg	cttcccagag	gaggtggagg	tgacagctgc	agctataagg	1800
gaaggaagaa	cagagcggtta	tgcagcatgt	gaaggctttg	gagacttgtg	agggcacgaa	1860
ccgggctcac	tatcccatta	gacaaaagtg	gctgaggaag	gatgaaactg	tgtctaactc	1920
tgcctggtga	ccgaaatctt	gtccatgggt	gacgcttaag	aagtgaccct	cggccgggcg	1980
cagtgggtca	cgcctgtaat	cctggcactt	tgggaggcca	aggcggggcg	gtcacgagtt	2040
caggagatcg	agaccatcct	ggctaacacg	gtgaaacccc	actctacta	aaaacagaaa	2100
aaattagccg	ggtgtggtgg	cgggcacctg	tagtcccagt	tactcgggag	gctgaggcag	2160
gagaatggca	tgaacctggg	aggcagagct	tgcagtgagc	cgagattgcg	ccactgcact	2220
ccagcctggg	cgacagagcg	agactctgtc	tcaaaaaaaaa	aaaaaaaaaaa	aaaagtgacc	2280
ctcataaaaa	aattagctgg	gcacgatggg	gcacactagt	cggaatgctg	gggtgggagg	2340
atgacctgag	tccgggagtc	agaggttgca	gtgggcccag	atcgcgtcac	agcactccag	2400
cctggcgaca	gagtgagacc	ctatcaaaaa	atagcagcag	gccaggcgcg	gtggctcatg	2460
cctgtaatcc	cagcactttt	ggaggctgag	gcgggggat	cacgagggtca	ggagatcgag	2520
actaccctgg	ctaacacggt	gaaaccccgt	ctctactaaa	aatacaaaat	attagccggg	2580
cgtggtggcc	ggcgccctgta	gtcccagtta	ctggggaggc	tgaggcagaa	gaatggcgtg	2640
aaactgggag	atgagttgtg	cagtggagcg	agatcggtcc	actgcactcc	agcctgggag	2700
acagcgcaag	actctagctc	aaacaaacaa	acaaacaaaa	cagcaacaac	aacaacaaaa	2760
ccatcctccc	ctcccagggg	gacagaaacg	aaacgaatgg	gcgagtgccg	ggccaagcag	2820
tgggtctcca	gcaggtggca	ttaaaatagg	aattttggct	ggggacggtg	gctcacacct	2880
gtaatctcag	cactttggaa	agcccaggcg	ggcggtcacc	tgagggcaga	accagcctcg	2940
ccaacatggt	gaaatgccat	ctctactaaa	aataaaaaat	tagccaggcc	tggtggtggg	3000
tgtctgtaat	cccagcaact	cgggaggctg	aggcaggaga	atcgcttgaa	ccaggggggc	3060
agaggttgca	atgagtcaag	attgcaccac	cgcactccag	cctgcgtaac	aagagcgtgt	3120
aactcttgtc	tcaaaaataa	attaaataaa	taaataataa	aaataaaaaa	gaatcttcat	3180
tcatgggaag	tcgagaacac	atgaaaacaa	gtaaaggccg	aagcgcagtg	gctcacgcct	3240
gtaatcccag	cactttggga	ggctgaggcg	ggcgataaac	ctgaggtcgg	aagttcgaga	3300
ccagcctgac	caacagggag	aaaccccgcc	tctactaaaa	atacaaaatt	agccggggcat	3360
ggcggtgcat	gccagtagtc	ccagctactc	gggaggctga	ggcaggagaa	tcgcttgaa	3420
ccggaatgtg	gaggttgtgg	tgagctgaga	tcgggcaatt	gcactccagc	ctgggcaaca	3480
agagcgaaac	cctgtatcaa	aaaaaaaaaa	aagaaaaaaa	aaggaagaaa	aggccaaag	3540
gcgcggggcg	cgggtgggtca	cgcctgtaat	cccagcactt	tgggaggccg	aggcgggcga	3600
atcacgaggt	caggagatcg	agaccaggtg	aaaccccgtc	tctactaaaa	atacaaaaaa	3660
attagccggg	cgtggtggtg	ggcgccctgta	gtcccagcta	ctcgggaggc	tgaggcagga	3720
gaacagcgtg	aaccgcgaaa	gcggagctgg	cagtggagctg	agatcgcgcc	actgcactcc	3780
agcctgggtg	acagagcgag	actccgtctc	aaaaaaaaaa	aaaaaaaaaa	aaagaaagaa	3840
aggg						3844

<210> 1049
 <211> 4126
 <212> DNA
 <213> Homo sapiens

<400> 1049						
tgcagtgcag	agttccttta	tttggggggca	gtgccagggc	cagttggtgg	aaagaggcag	60
gcatacaacc	cactgtcagg	ctgggggggccc	cagcaggggc	gatggaggag	acgaggtggt	120
tgagggattt	tctcagctgc	aggttccagg	cccaggacag	gaggagatgt	caggcatcag	180
acactgagcc	tgcttggtgc	ccgcaggagc	caaaaactgg	cggccagagt	ttttcccgcc	240
cccgccccc	gcttaccac	aagggtgccc	agaggccacc	ctctgcatcc	tcctttcccc	300
tcaggatgga	gtccaggccc	aaaggggtca	gattctgcag	aggccaaaga	ggacactcag	360
gaaggtgaca	ctgcctcagc	cagccaagga	ccccctgcct	cgagagggg	cagcagagga	420
agagcaaac	ctttaacaca	ggctgtggcg	acccgcccga	cagcacacac	ggcacacaga	480
gggcctcagg	cacagctccc	cttctcagag	caaaacccaa	ctagacacaa	ggcccagctc	540
ctgcccacag	ccacagaaac	gcgggccaca	ggcttgccctg	ggctggcacc	tactggttct	600
cttccttctg	ggcagcatga	agggaaaaga	cacaggaggg	ctcagctggg	ctcctagact	660
ggcccaggct	gagtcctggt	cccagccaac	atctgacaaa	ggaaacaccc	caactggagg	720
agacaaaagg	ggtgtggctc	acatggagca	cgctgtcacc	gtcctgaggg	cttgcccatg	780

gagaagacag	caccctgggt	actgaagggg	aacgggtggg	caggaccag	gaggtgagct	840
gggactcagg	tacttgctgc	tggccaggta	ctcacagcgt	ctggtaggtg	ctgtccttgg	900
ccttgaggaa	gtgcagcaca	aagaaagcca	ccgcctgtag	gctcaacacc	agcacgacac	960
ctccgataaa	gctggccccg	tcaaateccag	ggctgtgggc	ctcagggact	ggggggctcc	1020
ctgcaggggt	gaggcagggc	aggggtcata	gcagtcactg	tgaaccagga	tcccagtcct	1080
accctcataa	ctggcacaag	taacctggag	gccccgggtc	tcaatatggg	gtgcttaaac	1140
cctgggctcc	gtttagtcca	gatcccgcag	gcagttggga	agcgcctggg	gggaggaaca	1200
gtggcagggg	aggggtgggt	gctgtccagc	cctggcttg	ctcctggctt	gctctgtggc	1260
ttttatgcca	cccacattct	ctctgggcct	catgatcaca	tggccaatt	ggtggcttgg	1320
accagtgaact	gggctccac	cctccctggg	cctcaccagc	ccaatagggt	gaagacagag	1380
ccagaactca	gaccctcccc	tgctcacaat	tcctttcagc	cttggacctc	agggttcaga	1440
gccaagatgc	agacgatata	gtcccttttc	aggactccta	agccctaaga	cctcagtgct	1500
acccaatgtc	agagccctca	gagaggggag	gagcaggggg	agaagtggag	gccccaaactg	1560
tcaccctgct	aagtgggtaa	gcgaggactg	gacagtgtgt	gtcaggggga	acatggctga	1620
gggacaggct	tggccaaagt	cacctcacag	gacatagcca	gactcacaca	gggtcccctg	1680
accatctcct	ctgcccctta	gaaggtaggg	ctttaggggc	atggttgcca	ggctatgcct	1740
gggtggctcc	cagctgtgcc	acggtacctg	tcactccta	gcagggattt	gatttcaggg	1800
cctgggctgg	gtgccagaa	cagggcaggg	ctgggtggatg	gaagatcatt	ctgggacagt	1860
ggaaaggggc	ccagcctgaa	ctgggtctcc	ctcccagaag	gtgtaagggg	tggaaggagt	1920
ctgacaatat	gaagggcaaa	cagtgggtccc	agctcccgtc	caggagagccc	cagagaagga	1980
agctggggga	tgaggagcag	aagaggggag	aaatgagcca	catgaggctg	atccggggct	2040
ccagctgagg	gagctgagcc	atcaataatt	cagcttctga	gatcgggttc	tggtcttaaat	2100
taaccaaggg	cctcttcagc	catccctgcc	aagtctgggt	acctccagcc	cctgagaggg	2160
agtgggaagc	aaagggtgac	attcttgctt	ctactccgcc	aggaaccgcg	cttgtgacc	2220
tctctggggc	tggagggtgc	agtaggcagg	cactgaggat	gtctcctgag	caactcaggc	2280
cacacaccct	cacctccaag	gacaagtccc	gaggagtgc	cttgagttcc	cagaactggc	2340
aatggggagg	agggatggga	actgtcattt	cttgattgcc	ttcagtgagt	cagacactga	2400
agtgggcaact	gtacagcttc	tcataaaacc	tgcagagcaa	ctctatgaga	aaggcatcat	2460
ccaacccatt	tcacagatgc	ggagacaggc	tcggaggggag	aaggcgcagg	gccgagggtca	2520
cagagcatgt	cagtgcctga	gcccagagct	gtcttcccct	gcacctctgc	tcctcccact	2580
gccccgtctc	cagggtgtac	tcacctgttg	tgactgtctt	cggttcatag	gtgggtgggt	2640
ggtgagcagc	tgaggagaca	ggtgatccat	agcaaaagcag	ccttcccacc	cctgactcc	2700
catcaagacc	ccagccccc	ctcaccgcta	aacttccgat	tcagatgcag	ccctgtccct	2760
actctagaca	tccaacatac	ttgcaagccc	cacacagttc	cctccaccag	atgtgtcttc	2820
tctccatctc	taccttccag	gctcattact	gatgccacct	cctccaggaa	gcactccctc	2880
tcattccctc	tgaacttcca	aagtccttgc	tatgccttaa	actagaagaa	gagctaacac	2940
tcccatcccc	tcacacaccc	tgtactaatt	ttcagatgag	gaaataggca	gagagaggag	3000
gggacttctc	agtgaactaa	aggcagaact	gataccgggc	ccaggatatg	gtgagcaaaa	3060
tccaccgcct	gagagaggct	gtttcctcct	ggggggcagg	ctatgggtgg	ggagacccat	3120
gcaacttggc	ttagggtgcaa	gaacccccct	acctggacat	gcctctgagc	ggttgtagat	3180
ggagcaacct	tccttgacca	cctcagattg	ggccacacag	tgtcctgggtg	agagaagggtg	3240
caggggggag	gtttggggag	aggggccagg	gccttggggg	tcagagctgg	gggcaactcaa	3300
tctggggagg	gctcagctcc	atacctggct	cctctggccg	gcactgctcc	cacatgcagc	3360
tgagagatt	gcgcgctctg	tctccctcca	cgcagtgtct	acagacctcc	agctgtttgc	3420
aggccccctg	gaccgcccgc	cagatattca	ggcggatcag	ggctcccctc	caaagcctc	3480
gagctccttt	acctggtagt	gcggtggagt	gggaagggaga	aattcctcga	agccaagctg	3540
tggcacccgc	ccaccctccc	acccaacaact	ccggtggccc	tcgccccctc	gcacacatct	3600
gggctctcac	actcaccctc	ggatccccaa	gccccagcgc	acacctggag	cttccacagc	3660
agaggtctac	acacacctag	agcctcccca	cattcaccca	gagccccctc	ctttgcatac	3720
acccgggggt	cccagattca	gttgaggcca	cctccccccag	accacctgaa	gctccctagg	3780
ccccacacc	tggggcctat	atttacacac	agggctccac	acagagctgg	agccccctct	3840
cccacccctg	gaggcctgca	cttggccgga	aagccccctc	ccctcaagcc	cagggtgcgc	3900
ctggggagac	ggtgcaagtg	ggtgcaagtg	ccatcgtccc	ccgtcgagcc	cctagccaga	3960
ccctgccgcg	agttaccagc	cacagccagc	tgggcacata	ggaggaggga	gcaacagccg	4020
ccacagagcg	cagtccgcaa	ggcgcggggt	cccgagacct	ccatgggctc	gcgggggtggg	4080
ggtggccggg	ggcggtggcc	gggatcgggtg	gacagctgcc	gggcgc		4126

<210> 1050
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 1050
 ttttagtagag atagggtttc actatgttgg tctggctggt ctcaaactcc tgacctcaag 60
 tgatccaccc gccttggcct cccaaagtgc tgggattaca ggtgtgagcc actttgcccc 120
 gcctaaatth ttatthttttg tagagatggg ttccactat actgcccagg ctgggtctcaa 180
 actcctggct tcaaacatc atcccgctc agtctcccaa agtgctggaa ttacaggtgt 240
 gagccactat acctcctggc cagthtttta tttthtaata tatacagggt ctactctgt 300
 caccagggt ggagtgcagt ggcatgatct tggctcactg c 421

<210> 1051
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 1051
 agggaggagg gatagcatta ggagatatac ctaacgtaaa tgatgagtha atgggtgcag 60
 cacaccaaca tggcacatgt atacatatgt aacaaacctg cacattgtgc acatatactc 120
 tagaacttag agtataataa aa 142

<210> 1052
 <211> 5889
 <212> DNA
 <213> Homo sapiens

<400> 1052
 ggttgctgtc ttctctgtcc ctccggccct tcttctact cagcgtctca cttttggcct 60
 attttctgct ggatctctgg cagcctcgtc ttctccctga cgtttcaggt gagtgtttct 102
 tcattcagta agcaccattt gggacttgc ttggtgcctg attccgctgg gtggggthaa 180
 gtggcgaggg gaacgtacag caggccacct gcctcccagg catggccac ttctttttg 240
 tacggaattc cctaaaatga gaattgcccc ttcccaaac taatactact gtaggtgcag 300
 tggthaaagt ggtgaagtct gcagccata tacctgggtt ccattctctg ttctgccatt 360
 taccattgct gtgacctgtt aaaagtagct caatttctgt ttgtctcaat ttctttatct 420
 gtaaaacaca gatgatagaa cttaacttcat agagagggtga ggagaggatt aatgagthaa 480
 tacacatgct atactttatga tagtgthtca catataagcc ttataaatag aacgtcagtg 540
 tgtgtthttc ttgttatcca tataatthac tttagtggtg acaggctgta tgtgagttgc 600
 ttgggagata agcatgagta aaatctagtt cttatgttgg agaagggtaa tgtctaaagg 660
 agacagacgc aaacaaaaac atgtaacagc tccccattg gcatctgaag aaggtgctct 720
 ggggctgcag aggagggaca actatttctg ccttggggag tgtctccagg gccctacca 780
 ctcaataatt tgccccctc ctctctctct agcatcatcc ccagagagcc acactctgac 840
 aggtgagta aggccacctc ttgaagacaa atgccacat cctgtcctgc ttgctggtgc 900
 cagtgtcacc atggagcagg gcagtgcctc agcattgtga atgaactgg aacagccat 960
 gggthtttca tggctctagg ctctgtgta ggtgtttgag tgctgtctcc ttttggggca 1020
 gagggthggg tctctctggc tttgcttcta agaccaggac agcctccttt tgagaggthg 1080
 ggtcattthc tttthtagac taaagatata tttggcattc tcagagggtat ttaagtgtct 1140
 aggaagctgg tatctgagg ctccagggtt catgtcatgt ctcccagtg agggthcggg 1200
 gtcaggcgcc cggccgcacc tgctgagtht gcccagtht tgcagatacc tggctgagag 1260
 ctggctcacc ttccagattc acctgcagga gctgctgcag tacaagaggc agaathcagc 1320
 tcaggthaac tcccctacat catacaacag ttactacac tgaagggtga tagagthggc 1380
 ggggagthgg agthgagthg tataaactcc ccgctthgg agcctgaaag aagaggcctg 1440
 ggcgccttct tgaggcaaca ttcacagcta atccctggth caggaggcag tctcacctca 1500
 ggaaataagc tthtgatagc ctgacacttt ctctgcca ggagaccag tgtgaattac 1560
 aggtgthggg cattatgtat tgccagcttc ctgaattggg ggtctthgag atcctcttaa 1620
 ccaaactgga ccacccatt cctthgagth ataccatcc ttctaccagc tgagcagthg 1680

tttcttacc	agccgagcgg	ggcgcatatc	tcagcgtgat	gttcttagac	ttttgctctt	1740
ctctgcagtt	ctgcgttcga	gtctgctctg	gctgtgctgt	gtggctgtg	ttgggacact	1800
atgttccagg	gattatgatt	tcctacattg	tctgtgagta	gggtctgtcc	ctgccctatt	1860
taaagccctc	tcctttcttc	tttcotttga	ctgaccacga	gggaagacta	tgctctctct	1920
gctcagtttc	tgatttgtgg	agatctccag	ggatgcttta	gtattagtaa	ctgtggaaga	1980
cttacctggg	gaggagggca	gtggatgtgg	caagaagagg	ttggcacagc	cttgggaaaag	2040
gaccttgcc	accttcagca	cttcagttta	gggaccagtt	gaatgggggc	tcttaggaaa	2100
ttggcgtagg	gagctcttag	ttcacgttct	taacccatag	tggtgagtat	cctgctgtgg	2160
cccctgggtg	tttatcatga	gctgatccag	aggatgtaa	ctcgccctga	gcccctgctc	2220
atgcagctgg	actacagcat	gaaggcagaa	gccaatgcc	tgcatcacaa	acacgacaag	2280
aggagtaagg	ggctgcccta	agccaggagg	gtgaaagagc	gggagggcct	tggtttgggg	2340
ttcatgagat	gccctggaat	tgagatcttc	tccagttctt	tagctgtgtt	tgtctcccct	2400
cccatcattc	atgcttggtc	attgctctac	tactcttgct	tttctagagc	gtcaggggaa	2460
gaatgcaccc	ccaggaggtg	atgagccact	ggcagagaca	gagagtgaag	gcgaggcaga	2520
gctggctggc	ttctccccag	tggtgaggtc	cagggaagagc	gggggtgtca	aatagaaagc	2580
cagaggaaaa	atctttctgc	tttgagagctg	cacctccaa	aggaggtgga	agccagaggt	2640
tttgggagag	gggatgctcc	tgataaattg	gtctcttat	cccctcacat	gtcgtgttca	2700
tctgggttct	cctgccaggt	ggatgtgaag	aaaacagcat	tggccttggc	cattacagac	2760
tcagagctgt	cagatgagga	ggcttctatc	ttggagagtg	gtggcttctc	cgtatcccgg	2820
gccacaactc	cgcagctgac	tgatgtctcc	gagggatagg	ggagcccttt	gctgccctgc	2880
tccccgccac	aatctttgtg	ttccctacca	tgggtactta	ctgtgctctc	tggcccactc	2940
actctcta	tctctcagct	cctaaaagac	cttaacacct	aaggcttggc	ccagctttcc	3000
atgtcttgag	ttctcatcct	tgaactatt	gtctgttgtg	gctaatacaga	ccagcagcag	3060
gcccattctt	aattctttgt	tctctgcaca	gatttggacc	agcagagcct	gccaagtga	3120
ccagaggaga	ccctaagccg	ggacctaggg	gagggagagg	aggagagct	ggccccctcc	3180
gaagacctac	taggccgtcc	tcaagctctg	tcaaggcaag	ccctggactc	ggaggaaag	3240
gaagaggatg	tggcagctaa	ggaaaccttg	ttgcggctct	catccccctt	ccactttgtg	3300
aacacgcact	tcaatggggc	agggctcccc	cagatggagt	gaaatgctcc	cctggaggac	3360
cagtggagac	actgagcccc	gagacagtga	gtgggtggcct	cactgctctg	cccggcacc	3420
tgtcacctcc	actttgcctt	gttgggaagt	accagcccc	ctcccccttc	attctcccac	3480
ctgttcccca	ggactcacc	cagcccctgc	ctgcccctga	ggaagaagag	gcactcacca	3540
ctgaggactt	tgagtgtctg	gatcaggggg	agctggagca	gctgaatgca	gagctgggct	3600
tggagccaga	gacaccgcca	aaacccccctg	atgctccacc	cctggggccc	gaatccatt	3660
ctctggtaca	gtcagaccaa	gaagctcagg	ccgtggcaga	gccatgagcc	agccgttgag	3720
gaaggagctg	caggcacagt	agggcttcc	ggctaggagt	gttgcgtgtt	cctcctttgc	3780
ctaccactct	gggggtgggg	agtgtgtggg	gaagctggct	gtcggatgg	agctattcca	3840
ccctctgcct	gctgactgc	ctgctgtcct	gggcatgggt	cagtacctgt	gcctaggatt	3900
ggttttaaa	ttgtaaaata	ttttccattt	gggttagtgg	atgtgaacag	ggctagggaa	3960
gtccttccca	cagcctgcgc	ttgcctccct	gcctcatctc	tattctcatt	ccactatgcc	4020
ccaagccctg	gtggctctgg	cctttctttt	tcctcctatc	ctcaggggcc	tgtgctgctc	4080
tgccctcatg	tcccacttgg	ttgtttagtt	gaggcacttt	ataatttttc	tcttgtcttg	4140
tgttcctttc	tgctttattt	ccctgctgtg	tcctgtcctt	agcagctcaa	ccccatcctt	4200
tgccagctcc	tcctatcccc	tgggactggg	ccaagcttta	gggaggctcc	tggtctggga	4260
agtaaagagt	aaacctgggg	cagtgggtca	ggccagtagt	tacactctta	ggtcactgta	4320
gtctgtgtaa	ccttcactgc	atccttgccc	cattcagccc	ggcctttcat	gatgcaggag	4380
agcaggatc	ccgcagtaca	tggcgccagc	actggagttg	gtgagcatgt	gctctctctt	4440
gagattagga	gcttccttac	tgctcctctg	ggtgatccaa	gttagtggtg	acccccctact	4500
agggctcagga	agtggacact	aacatctgtg	caggtgttga	cttgaaaaat	aaagtgttga	4560
ttggctagaa	ctgctgcctc	cctgactgtg	agctgccttc	cacaccctgc	actgcactgt	4620
gttctctcct	cacccttaac	ctgcttca	ccagtctgtt	ctggctgttt	attaccttgt	4680
tgcaaaacag	ggccgaagca	aggattacct	tgacaacctt	agcttctcct	tagccatctt	4740
ccttgacagt	gtgatctgtt	tagtgagatt	tagcatgtgt	gaataaagta	tatgcaggag	4800
gaaattgctt	tgtcttccca	atcggtagaa	attcgggacc	ataaaaaattg	tgttttacca	4860
tggtgcctac	aaccttaaca	ctgctttctt	aagaagctt	cacccatcta	catgctaaca	4920
actcactcag	cctggattta	tctttactgg	ggaagccaaa	caagcaatag	aggaccttta	4980
cctgtgttag	aaatgagttg	gagccaagga	acactgaaga	aatagtatct	taacagttac	5040
tgagtccatt	gtatgtgctt	ggctctgctc	tgagtgattt	atatgtatta	agatttttcc	5100

tcacaggtca	gatatatact	gttactaact	tcattttata	gacaggttaa	gcttcctgaa	5160
ggccacaggt	cccagtaaat	tgtggagcca	gaacccaaac	ccaagaagtt	ttggcttcag	5220
caaatgcatac	agacagcccc	tgtccattaa	tagggcacag	gtaggaagat	gcacaaggat	5280
gtgggaacta	tagagaacca	atctgatgcc	ttggcttaac	aaagagtga	catggcaagc	5340
cttcctcttt	ggggaagaaa	agcccagaac	tgagcagatg	gcctccttta	tgagttcatg	5400
tcctccgcct	tcagctggag	gtaccatatg	gcgatgctac	ctgtctttct	gctggaggta	5460
ccatatggta	atgctgcctg	gctgtctgct	ggaggtacca	tatggtaatg	ctgcctgtct	5520
ttctgagggt	gacttttatg	ccatgtcttt	cctaagtgtg	taagaatttt	tctgtttgct	5580
tcacatttga	ctgagaatca	ttctagggtt	tgattgagcc	cctgtcctgt	gccactaaag	5640
gaactcgaac	ttttcatcac	ttagagattt	cagaggggaa	tgaaaaaaca	gttctaataca	5700
ataagcaagc	aattcaagaa	aaatagaatt	aatcaggcaa	tgactgcaac	atgtcctatc	5760
tttaattctat	tttcttatta	agcttggaca	ttgacaatag	aaccagaagc	ttgtagctgg	5820
atcaaaatat	tctccatagg	cctggaggtt	catgagggtc	tattcttttg	ttgttggtgt	5880
tttggtttt						5889

<210> 1053
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1053						
gggccgggga	tggcgctgag	cctgggcctg	ggctctgggtc	tgagcctagg	catgagttag	60
gccaccagtg	aggcagagga	ggagaggcca	cggccgagcg	gtgggacgcc	tggccacgac	120
gctgtggctg	cgctccgcgg	ctgggaggcg	gtgctggcgg	cggcgacgcg	gttgctgggtg	180
tgggagaagc	c					191

<210> 1054
 <211> 686
 <212> DNA
 <213> Homo sapiens

<400> 1054						
gggttttttt	tttttttttt	ttgagacgga	gtcttgttct	gttgcccagg	ctggagtga	60
atggtgcagt	cttggttcac	tgcaacctct	gcctcccagg	ttcaaacaat	tctcctgcct	120
cagccgtcca	agtagctggg	attacaggtg	catgccacga	tgccctggcta	ttttttgtat	180
ttttagtaga	ggtgggggtt	caccatgttg	gccaggtctg	tctcgaactc	ctgacctcag	240
gtgattcacc	cacctcggcc	tcctaaagtg	ctgggattac	aggtgtgagc	cacggcgccc	300
agcctcatga	gggtctattc	tttacattca	ccatggctctg	atggttgcta	catgtttgtc	360
tatgattttt	tttttctatt	atcaggtgtc	ttggccgggt	catgccccac	gatgaaaagg	420
ccagagggtt	tcatatgagt	aaaagaaaaa	agcagaaatg	tgaaacctac	attaggcta	480
aacaaaaatc	aactggaaaa	gtacaggctg	aggggagaag	agttggctac	atgtttatgt	540
taggggagga	gggagtacat	tttagctatg	tattcaaaca	gctaataagt	taatgttgct	600
gcttataaac	ttaatttttag	gctgcattaa	taaaagtgtg	gtctccaaaa	caagaaatgt	660
gataattcta	gtgtcctgtg	cacgaa				686

<210> 1055
 <211> 26166
 <212> DNA
 <213> Homo sapiens

<400> 1055						
gccacgtctg	caagtcagcg	tttattgctc	aagcgtatta	aacaaaaaatg	tagactgaaa	60
gagacagttc	ttttaaaccc	catttttccg	gattttttta	gcgctctaa	ataagaaaat	120
aagaaagtgc	aagccagcaa	aaacgtccca	agtgcctaata	tctgactctg	aaacttgagc	180
tctctggtct	gcccccaaga	agacatcagc	ccgccccggg	tcgtccctgt	ggctcccacc	240
ccattcccag	gagcagaccc	cgccagcctc	aaagctgcag	ggaggtgggg	gtggcctgca	300
gacaggggtg	ggtctgcatc	cggtaccagt	gacagcagcc	tctcctctcc	cacggtggcg	360

cttgttttggg	gctgtggcca	aagtgtttgc	ccggcccctg	actgtgtcct	tccggagctg	420
ccgaggactg	cagagagggc	ctggcttgtc	ccctctagga	gcagctggga	aggtgtcttg	480
cctgcatccc	ccttcaatgg	ttgaaaataa	tgattccact	tgtatgaac	accatgaagg	540
tatcttggca	gccagagtca	ctcctgttcc	gcagtgggaa	acctgggagg	gtcctcaaac	600
cccctggcag	ggtctgcagg	ccgccccatc	cagctgcac	tcccaggcct	cctggttctt	660
tgatcttgat	ggccccaggc	cacagatgca	tctccggggc	tttccagcag	cccatggggg	720
accagtcaat	acaccccacg	gcggtgaaga	gaaaacgttc	atgtcttctc	agatcagaag	780
gaaagaaaca	aaaccattgt	gaaggaaaac	acctgctgga	aagtaattat	caaagtaaca	840
gcattccagt	ttcacagtcg	ccccaaactc	ctgtggattt	actgccgtca	gctgggagga	900
cccaggcgcc	ctcgggacga	ggagacgcag	ggaaaccac	tcctggccat	ggcactaccc	960
aaagccagtg	ttattctcac	acccaactgt	ccctgcagcc	tggcaggtgg	gcagtgaccg	1020
cctgggctgt	accctaagac	cccaaaacag	cggagatgga	gaagaccgct	gccctggggc	1080
cttctcagtg	aggatcaaga	caaagtactt	gctaggagggt	agagggcgct	gggtgaacct	1140
gtgagaattc	ctgggctctg	acctgatctg	tcttgcattt	tgagtaatgg	gagcaaacac	1200
aggagggagg	ggctcagctt	cccccggtca	ctggggccag	ggagacgtgg	tccagccggt	1260
ttacaaagcc	ttggatgcag	ccccaccccc	aagaacactg	cctgtcacag	cagcggccac	1320
gtggcactcc	aagctgggca	tgacagtgcc	cggacgtgg	gcagcggcca	tgtggcactc	1380
caagctgggc	atgacagtgc	ccgggacgtg	ggcagcggcc	acgtggcact	ccaagctggg	1440
catgacagca	cccaggacgt	gggcccggcca	gtgtggcggt	ggatccctct	agaatgactg	1500
ggtctaagta	gggagacagg	gcaggcgacc	cggcgtggac	tggtgtggat	ttcacctggg	1560
agagcagcgg	cagccttgtt	cgtttgcgcc	caggctcttg	aggaggggcc	cctgcggctc	1620
ccggggccagg	acagagggcg	ccagccctgc	tctcactgtc	caggaagagc	cgctgggcag	1680
cctgagcctg	gggcaggtgc	accttgcagg	gaagtgggta	agatccact	gggtgactg	1740
agtacccggt	acagacccta	agcgtgggg	gaggaaagccc	ggtcagagtg	ggcaggagac	1800
gcagggaccc	acagtctggt	cagggtccaga	gagcccactc	cagcccaagc	catgagagag	1860
gcaggaagag	gagctggggc	cagttcaggg	gtggggctct	caagaggccg	agccgggggc	1920
ccttcctcgg	cctgggaagt	tgcggccatg	ctcctgctgt	tacgacacgg	gagccaatg	1980
gagctgactg	atctcactga	ggcacagact	agccaacatt	ggcctatltt	aaaattaaac	2040
taccctagga	agtgaaaacc	ccacctgcag	cctggtttgc	cctcacacaa	gggaaaagag	2100
gtgttagaag	cagtagctca	gggcgattag	gggtgtgtcg	tttccatgct	tggggccagg	2160
ctggcgctg	ccaccgggtt	tcgcgtctg	gggtcactg	ggccatttgc	accacgacgg	2220
ctctccaggc	tttctccttg	tcgaactcct	tcagggggct	cctggccacc	tgcaaccgag	2280
acaggaaagg	tgttacttca	ccaggggccac	ctgtgcggcg	ggaaggtgga	cacgccactc	2340
ggccacaggc	agcgagcagc	cagcgttcag	aagttttctt	cgaatgtgaa	gaggtgggg	2400
aaactaacc	ctgggcctct	gtggaaagag	ataaaaagcct	tcacttcctc	agtgtcccag	2460
aaacgcctgc	atcccccccc	gcacacacgg	tttctaccga	gcctgggatg	gagcagccct	2520
tcactgggcc	ccttgccttg	gctctggggc	ggggagcggg	gggagggccg	ccaaggttgg	2580
gcatgtgcct	cagggctgag	gaagaaaaca	cttaaggcag	aggtaaccag	atgcctccag	2640
gcaaaaggga	ggacagcgcc	agccccagct	gtccaccctg	agccccagtt	gtccaccctg	2700
agccccagct	gtccaccctg	agccccagtt	gtccaccctg	agccccagcc	acccaccctg	2760
agccccctgg	ccccagccgt	ccaccctaag	ccccagccat	ccaccctag	ccccagccgt	2820
ccaccctgag	ccccagccgc	ccaccctgag	ccccaaaccg	ccaccctgag	cccaagccac	2880
ccaccctgag	ccccagccgt	ccaccctgag	ccccagccgc	ccaccctgag	ccccagccgc	2940
ccaccctgag	ccccctgggac	cagcagttct	gggatctggg	gagaacacct	catgcgtctg	3000
actctggggc	ttgctggtca	caacagaaac	ccaggcgggt	ctcatttcag	gccaggggac	3060
tgccgtccta	gcagggagac	tgaccacagc	caggaaaaat	ggcagcaaag	caactgagga	3120
ggcaggttaa	gggaacagca	gtagggaggg	tggaggggtg	gggcgacggg	gtcagctgag	3180
aaacgagcca	agggcaagag	agcgtcctcc	gggacttagc	ggcactgga	ggctctgcac	3240
caaggttctg	aggccggtgg	tgtgctgaac	acaggagggc	aggggtgtga	gggcaagagc	3300
agcggccggg	ccgcccagga	tggcctagag	gtggggcagg	actcagagcc	ccgctgagtg	3360
gctgcccagg	tgttttggga	tcaaggtgac	agtcctagtg	gtcactgcac	ctgaggggtc	3420
gcgggcaggg	ttggccaggg	gagcaccacc	aggaccgcta	gctcgttggg	gggaagacgc	3480
tgagcctctg	cctttcagat	gtggggggcag	caagacagta	ggcagggccc	gggggaacat	3540
tgttcaggca	gtgacagcca	gaagtgtgtg	acaccccagc	tttacggagc	cccatgtgcc	3600
aggctgggtg	ggcattgcct	tccttgcaga	accgcgcc	caccagagac	cagggaagga	3660
aacttcagga	cctgtgggag	tcctcacaaa	gccctcttct	gtgtctctaa	gagcaaatct	3720
gaaagcatta	agtccagaat	atttcccagg	gatgggtctg	ggtttacca	ggctttgtgt	3780

ttgtattttt	aaaagacatt	ttacggctgg	gcgcgggtggc	tcacgcctgt	aattccagca	3840
ctttgggagg	ccaaggcagg	cggatcatga	ggtcaggagt	tcgagaccag	tctaaccaac	3900
atagtgaaac	cccatctcta	ctaaaaatag	aaaaattagc	tgggcttggg	ggcgggtgcc	3960
tgtagtccca	gctactcggg	aggctgaggc	aggagaattg	cttgaacca	ggaggcggag	4020
gttggtgga	gccgtgatcg	cgcactgca	ctccagtctg	ggtgacagac	tgagactcct	4080
tctcaaaaaa	aaaaaaaaaa	aagaaaagaa	agacatttta	cttcttcggg	gtttttctgg	4140
ggtgttttta	aaaatacaaa	gtggcacaat	gaatcttcga	gggccacgtc	gtgtggccct	4200
cggaggccct	caccaggaca	ggagccccc	ccgcaggcct	ctcacctccc	cagcgggtgc	4260
tcctgtgggc	cactcacctc	cccagcacc	ctgaaacca	caggcctctc	acctccctgg	4320
ctgagcacc	ctgtggggca	ctcacctccc	cagtgcctcc	acccacagg	cttctcacct	4380
ccctggctgg	gcccccatg	ggccactcac	ctccccagca	cctgcaccgc	aggccactca	4440
cctccccggc	tgggcacccc	tgtgggttac	tcacctcccc	agcaccctcc	ccccctgcag	4500
gccactcacc	tccccggctg	ggcaccctcg	tgggccactc	acctccccag	cttcccccca	4560
ccccacaggc	ttctcacctc	cctggctggg	cacccccgtg	ggccactcac	ctccccagtg	4620
ccccctcccc	ctgcaggcca	ctcacctccc	cagccaggcg	ctcctgcggg	ccgtttggg	4680
tgtcccagga	tgcaccctgc	agccttgac	tgacctgaa	gcgcacgcac	tggatggcgg	4740
tgcccggtt	gaggccggcc	tgacgcagg	gcactagcag	cagcagcagc	agcagcacat	4800
cgtaggatgg	ctgcaggcgg	aaggaggtgt	gagcagagtg	gcccagccgc	cctccagccc	4860
aggagacca	agctccctcg	tgcccacggc	cttcacaaag	agcagggtgc	agggctcgag	4920
tcggagcccc	agtaacccaa	acgcattgct	atttcaacaa	cctgatgata	atcattctag	4980
ctcaattaat	gaggtcaatt	ctgctttaaa	ttccatcagc	ttgtgttcaa	catacaggaa	5040
taaaagtga	cgagccactg	ccaggccccc	tggacagtgc	tggctgctagt	ggtcaagtc	5100
gctccacccc	tcctgctcca	acacgcgcaa	ggctcagtc	cagagccaga	gagaatgtcc	5160
gcgggaggca	gaagcgctga	ccgttccgtg	tcagcaggat	cctgagcggg	ggagacagg	5220
ggcagccgtc	ctggggggat	ggggtgcaca	gacccccaac	agcttcaccc	ctgagcacca	5280
gctgctagga	aggaaggggc	aggaggcagc	gcgggtgagct	cggcagggaa	gaggatggag	5340
ggagcggccg	aggatgcagg	gggccagaga	gtgaccacgg	agcacccaaa	accctctgtg	5400
cccatggata	gctttcccg	gttggctcaa	gaaaaacaaa	gcaactaaat	gttaacacac	5460
aaaagagcca	aacatctatc	caatgtcact	gctacaaaaa	gtaagggaag	aaacagaacg	5520
aacagctctt	ctcaagttaa	cataaaactt	ttttttgcga	cagtctccct	ctgtcaccca	5580
ggctggcctg	cagtgcgcgc	atctcggtc	ctgcgaacct	ctacatccca	ggttcacgcg	5640
attctcctg	ctcaacctcg	ccagtagctg	ggattacagg	tacccgccac	cacgcccagc	5700
taattttcgt	agtttttagta	gagacgggg	ttcaccatgt	tagccaggct	ggtctcctaa	5760
cctcaggtga	tctgcctgct	tcggcctccc	aaactgctgg	gattacaggc	atgtgccact	5820
acgcccggcc	tggattttaa	gtaattatta	gaaagtctgg	tacttgtgtt	cccagctgga	5880
gtttaccctg	gaggatggta	aaggcatggg	ccccatgtgt	cttttgcct	tcggttgttg	5940
agacaccatt	tattgcaaag	cctatgcttt	cctcagcttc	aaaaaaaaaa	aatccagagc	6000
cattaaagaa	aataattaat	aacttaacta	tttaaaaaaa	tagctttcac	ataacaaaaa	6060
tcacaacaag	cagaacaaga	aatagccggc	aggctgagac	caccatttgt	atcctccatc	6120
acagatggag	ctggtctccc	ccggcaccag	ggttagcggg	aaatggtcag	gagacatgag	6180
cagagtccac	tgaaaaagca	atgcagacgt	cctcatgctt	tgtgaagggt	cctcgtcctc	6240
accacacatt	agacggagg	gctcccaccc	gtgtcaccca	actccagcgt	gacaccctct	6300
gtggggggct	gtggagaagt	gagcaccttc	acgcatttgg	caggagggaa	ggtggacggc	6360
ccccattgag	gaggtcgccg	agatttatca	gcatgacagc	tgcacctacc	ctctaccag	6420
cagtctctct	cctagctgga	tatcctaaag	atgcgctgag	gattcaaaa	gaagatgcgt	6480
gcaggttggt	cacggaggag	ttattttatag	tagcagacgg	ttggaaataa	ctcagtttcc	6540
atcactaggg	actggctggg	ttgaccgggc	agtcaggagc	gatgaaggaa	ttcagaagag	6600
ctctgatccc	cttgggtatc	gagaaaacac	caggataaat	tattaagttt	aaaaaaacaa	6660
gcaaggggct	gggcacgggtg	gcagaagcct	cctcatccca	gcactttggg	aggccaaggt	6720
gggcggatcg	cttgagccca	ggagctcatg	accagctcag	gcgacagagt	gagaccctgt	6780
ctctgaaaaa	taaaataagt	aaatacataa	ttaaaaagcg	aggtacatgg	ctgggcacag	6840
tggctcacgt	ctgtaatccc	agcacttcgg	gaggccaagg	tgggcggatc	gcttcagccc	6900
aggagctcat	gaccagccc	ggcaacagag	tgcacccctg	tctctgaaaa	ataaaaataa	6960
taaaatacata	actaaaaagc	gaggtatatg	gctgggcacg	gtggctcacg	tctgtaatcc	7020
tagcactttg	ggaggccgag	acaggcagat	cacttaaggt	caggagttca	agaccagcct	7080
ggccaacata	gtgaaaccct	gtctctgcta	aaagtacaaa	aattagccgg	gtgtgttggc	7140
atatgcctgt	aatcccagat	gtccggagg	ctgaggcagg	agaatcactt	gaaccaggga	7200

ggcagaggtt	gcagtgagcc	aagactgtgc	caactgcactc	cagcctggga	gacagagtga	7260
gactctatct	taaaaaaaaa	aaaatggcaa	ggtacagaat	agtgattcta	gtatacaagc	7320
tattttgtaa	gaaagaaaaa	aaaattatca	tctggttgcc	cataagagga	gcagtcagt	7380
caggcatgag	accacagctt	ttctgagctc	gtctttttata	gtttggcttt	tgaaccacat	7440
aaatatatta	tatatccaaa	aaataccatt	ttaaaaagaa	aaaaagcacc	aagccctaaa	7500
atggaataca	accagaggcc	attaaactta	atggggtatc	gaacccagag	gataacccca	7560
cacagaaaag	ggccgacttc	gatggcgtgt	ggccgtcccc	tgctagcaga	atgcatgctg	7620
aagataaaaag	ggaagcctca	ggctcactca	ggagatggcc	cctgggtggt	aatattgtct	7680
cttgtaatcg	tgaacaatta	tatgcatatt	gtaagacaac	atgaagtagg	agatatatta	7740
aatgtcacag	gaaacaaaat	aattggagta	ggagtgggtg	aagcaaaaca	aagagaagtg	7800
aagaaaaaac	cctgggcccgg	gtgttgtagc	tcactcctgt	aatcccagca	cctgtgggag	7860
gccgaggacg	ctatccccct	tcagacagtg	actccatgcc	cccatcagac	agtgactcca	7920
tcccccatca	gacagtgact	ccattacccc	attagacagt	gactccatcc	cccgtcagac	7980
agtgactcca	tccccgtca	gacagtgact	ccatcccccg	tcaggcagtg	actctatccc	8040
ctgtcaggca	gtgactccat	cccccgctag	gcagtgactc	catcccccca	tcaggcagtg	8100
actctatccc	ctgtcaggca	gtgactccat	ccccctgtca	ggcagtgact	ccatcccccc	8160
atcaggcagt	gactccatcc	ccccgtcagg	cagtgcactcc	atccccgtc	aggcagtgc	8220
tccatcccc	atcagtgc	ccatccccca	tcagacagtg	actccatccc	ccatcagaca	8280
gtgactccat	cccccatcag	gcagtgaccc	catcctccat	cagacagtga	ctccatccat	8340
ccatcagaca	gtgactccat	ccatccatca	gacagtgc	ccatccccca	tcagacagtg	8400
actccatccc	ccatcagaca	gtgactccat	cccccatcag	acagtgc	catcccccca	8460
tcaggcagtg	actccattcc	ccatcagcac	acgcattgtg	acctggagca	aacagcttaa	8520
tacaggtctt	ctaattgattt	gggtgcaaaa	ccacttatac	tggaaaaaaa	aaaaacaaaa	8580
aacaaaaaaa	cactaggtat	ctaagaaata	catctagda	cacgtgcctg	agcctcagaa	8640
gtcgtgttg	agataagctc	ctactgggtc	agctcaaagt	aacaggactt	tgaattctcc	8700
ttaaattcac	ctgttaaact	caatgcagtt	ctgatgcaaa	tccgaaaagc	atgtctcata	8760
aaccaggac	agattctaaa	atgggctcag	ggacagagtg	ggtcccaggt	ccctgtgaag	8820
caggtggtg	ccccagatac	agggcggaat	cgaggccccg	aggccctggg	gccaggctgg	8880
cattggggag	cacggtcacc	gctgcccagg	aacagcggag	gaggtgcctc	ctggagctgt	8940
ccctggagcc	agcgccccca	gagtcccagg	caaagccagc	aaggggccagg	ccaacacgca	9000
gagcaccaca	gctctggggg	gctctgaaat	aaatacaac	tcacttttat	ggctggcggg	9060
taatccttaa	acatctccac	gattctcatg	atgctgaatg	acagatatcc	agaggctgtg	9120
aacagcagcg	gagacgtgag	gctgcttatg	gcaatcagga	cctccacctg	gaaaaaaagc	9180
gcggttgca	ggaccacggc	cggagcctgg	gagcccagga	cagcgggcgt	ggccagggt	9240
ggggggggcg	gcatggccgg	gcactcatgg	gcatagtccc	aagctgggtc	cctgcatgac	9300
tcctgctgaa	acctctgcct	tttctttttt	ctttttcttt	tttttttttt	ttttttttga	9360
gacaagtctc	gctgtgtcgc	caggctggaa	tgcagtggca	tgatcttggc	tcactgtaac	9420
ctccgcctcc	cggtttcaag	tgattctct	gctcagcct	cccagtagc	tgggtattaca	9480
ggcgcccgcc	gctaattttt	gtatttttag	tagagaccgt	gttttgccac	9540	
gttggtcagg	ctggtcttga	actcctgacc	tcaggatgat	cacccacctc	ggcctcccaa	9600
agtgtgtga	ttacaggcat	gagccaccgc	gcccggcctg	cctttctttc	ttttttgaa	9660
ggcagcctag	ctgtgtagcc	caggcaggag	tgcggtggca	caatctctga	tcactgcaac	9720
ctctgcctcc	tgggttcaag	caattctccc	gcctcggcct	cttgagtagc	tgggattaca	9780
gacatgcgcc	accacacctg	gctaattgtt	ttgtattttt	agtagagaca	gggtttcacc	9840
atattgtcag	gctgggtctt	actcctgac	cttgtgatcc	accaccttg	gcctcccaaa	9900
gtgctgagat	tacaggcatg	agcagcctgc	cttttcatcc	acagcacagt	gccacaagtt	9960
ttgaaatact	taccatctag	gcaagggtgg	tcacatctgt	aatccaagca	ctttgggagg	10020
ccgaggagg	cggatcacct	gaggtcacga	gttcgagacc	agcctggcca	atgggtgaa	10080
acccccatct	ctactaaaga	tacaaaaact	aagcgggtgt	ggtggcgcat	gcctgtagtc	10140
ccagctactt	gggaggctga	ggcaggagaa	tcgcttgaac	ccgggaggca	gaggttacaa	10200
tgagctgaga	tcgtaccact	gcactccagg	ctgggtgaca	gagcaagact	ctgtctcaaa	10260
caaacaaaac	caagaacaa	aaaacattta	cctggaattc	tccactcttg	aaaaaatagc	10320
ccttcgcgat	gggtcacctc	cttactgtct	ctgaagtctg	tccttttaac	ccaccccaaa	10380
tcttcctgtt	tgaccatca	agtctcagag	acagccttca	ctcatgccaa	gcatgggcag	10440
tcaccttgca	aagcactcag	ggtccacatt	ttggcagcag	tcattaega	tcgaccagtt	10500
caattgtttg	cggtcagttt	gtggcagttt	cggccggggc	tgggtggctca	caccggtaat	10560
cccagcactt	tgggaggttg	aggtgagtg	atcacctgag	gtcaggagtt	cgagaccagc	10620

ctggccaaca	tggtgaaacc	ccgtctctac	taaaaatata	aaaattagcc	gggcatgggtg	10680
gcaggcgccct	ataatcccag	ctactcagga	ggctgaggca	agagaatcac	ttgaacccgg	10740
gaggcggagg	ttgcagtgag	ccaagatcgt	gccattgcac	tccagcctgg	gggacaagag	10800
cgagactgca	tctcaaaaaa	gaaaaaaaaa	caatcgacca	gccttaggag	gtgcagatga	10860
tgctcagaca	ctggtctcct	tccaaggggt	aggcacagag	gcgcttcca	gtgtctacac	10920
caccttggtc	aggtctgcct	gtccctgaga	acagtccttg	ctgagcgggc	cagcctccac	10980
ctcccacaac	cccaccttcc	tcattgtgca	ggccctgcag	cccagtcact	gcgctctctt	11040
gggctggagc	ctggtcacat	ggcaccaagg	gagggttagg	ccaggccctg	gccccgctcg	11100
gtgggtccct	ggcaccacag	gctgaggggt	tcaccaccca	gacacttgct	gggacactct	11160
gctgccacac	gactggcaat	ggcacttgga	aagcactaag	agaaaagaaa	aaggaaagat	11220
tttagaggaa	atagtcgaag	aagtcgaatt	ccaaacatgt	gccctcccac	cagtgaacccc	11280
tccatgcagg	ctgcctggct	ggcttgctgt	gggggagg	ggggatgggtg	cagtgcacaa	11340
aggcgcagct	ggggcaggga	cggttccgca	gggaagcagg	ggtagcctct	cagaggtttt	11400
gtgtgctctc	tggttctcaa	ccattgggtt	aaaattttta	gcctgtagaa	aagctgcaag	11460
agcagtgagg	ggggcatctg	aggcccaaaa	atcaccagag	tccttgacat	tcatactgt	11520
gctctctcca	gctctcccag	atagcctgat	gcctgaacac	ctgagagtgc	tggctgagcc	11580
cagggcacac	tgttatttct	acccaaagca	ggaccacgct	cgagagactc	cacgtggggc	11640
cgatgtggtc	catgccacga	ttcttccagt	tgctctcatc	atgttctttc	tttttaattt	11700
tttaataaatt	tttcttttct	cttctccttt	ttttttttaa	gatggagtct	tgctctgtca	11760
cccaggctgg	agtacggtgg	cgcatcttg	actcactgca	acctccacct	cccagggttca	11820
agcctcctga	gtagctggga	ttataggcac	ccaccactac	accaggctaa	tgtttgatt	11880
tttagtagag	acgggggttt	gccttggttg	ccaggctggt	ctcgaactcc	tgacctcagg	11940
tgatccgccc	gcctcggcct	cccaaagtgc	tgggattaca	ggcatgagcc	accgcacctg	12000
gccctgggtca	tggtatttct	agagctgttt	gtttgtttgc	tcctgatccg	gattcggctc	12060
gccattgagc	tcgtagtctc	cttggtgggtc	cctgttaatc	ggggagtccc	tcagcctctg	12120
tcacctccgt	tacctggtcg	cttctggggg	gtgcagccca	tcagctgcag	tcgggcctcc	12180
gtgtgggaca	ggatttcctc	atgatgagcc	ttggggagcc	tcggaggaga	ctctgcagtg	12240
ccccagggtg	tggactgccc	cttcctgatg	acgctgactt	gactcactgg	gttaggggga	12300
tctgtagggt	cctctgtttg	atgggcacct	cttccttttt	ataaccaaga	aatgctttt	12360
tcccacttat	tgtgaggagc	ctgccttagt	tccgcacaat	gtaggcagag	ggaggatgca	12420
tgctcttca	cctctctcat	tcccgaagg	tgctcagggtg	ccagcacccc	agcccggtc	12480
gctggggagg	gggctgcatc	agccaggggc	tggtgtgaga	gggtgggcag	gacagagatg	12540
ggctccgagc	aggggagcct	gggcagcagg	gagaagactg	gggagctgag	gggctgccag	12600
tgcaaaggcc	ccaagccagc	tgctgagggtg	ggtgtggccc	tggccaggga	ggctgagggtg	12660
tcaatacagg	ggtctctcct	gggcttggtg	cttctgaaag	ggccttctag	ctgtaagcag	12720
cagtgagggc	acaggaaggg	atggtggctt	cagggtggcc	tattcaggggc	ccagtgagc	12780
catgggaggg	cgggagtttc	cccgttcacc	cagcatggcc	actccggccc	ctgccctaga	12840
gggccaggaa	gctcagccat	aggggctggg	gcagctcaat	caagggccct	gccctggaag	12900
ggtcagggcc	tgcaaccaag	cccccaactc	cagccccgag	cacctgcctc	cagcccatgg	12960
tgcaaggcct	gggacctct	ggcgacacca	ggccagactc	aggcagggtg	agctgggtcc	13020
ctcaccacgc	atgcctcagc	gctctcctct	cctcctgggg	tctcctgccc	tgaagagagg	13080
ggtgggagtg	tgggtggatt	taggggcgcc	cagggggcag	cacctgatgg	gcaggggggtg	13140
ctctccggga	agatggagag	agcagagcca	ccccgaggc	aggagggtc	tcggggatgg	13200
gaggggcctc	tgtgatgagg	gctgactgca	gggacaggga	agggggtagg	gcaagtgcct	13260
ttcattctca	acttttttga	ggtatgtggt	ctctgtcctc	cctcagcttc	gggatgtaat	13320
cctgcgtttt	cagaccccag	ggtcagtgtg	acacacctgc	aggcgtcatt	ctctctgtca	13380
cagacccgct	tgggtgggca	cccatgtgag	ttctctgtct	cagtagctgg	gcctggtcct	13440
accccttccg	ggggtgtggc	tctatcccag	ctcggctctg	cctgggtctc	tttccctctc	13500
tgagcgccct	agcagcccac	taggtcgggc	actgggtgcc	tgggggcatt	gctctgtgcc	13560
tactcgcccc	cacaggggagc	tgaaacacag	ctgctgccaat	tgggatgtgt	ccacctggca	13620
ggcgtggggc	ccttctcggc	agtccacccc	gccacaccgt	tcccgggcag	gcgtggggcc	13680
cttctccgca	gtccaccccg	ccataccatt	cccgggcagg	cgtgggcccc	ttctcggcag	13740
tccacctggc	catactgctc	ccaggcaggc	atgggcctcg	gcagcttcag	gaagagcccc	13800
actgctgccc	aggaggagcc	tgtagctgat	gctgggtgct	caccattcct	gctcatgtac	13860
ataagagagc	aggggcaaaa	tctaaaagtc	cacacagcat	gagacaaacc	aggggctggc	13920
cgtcaacacc	ggtgtgcagg	ccactacgcy	gcaagggtgct	gagaacctcg	tggggctctgc	13980
gtccggaggc	aggtgggtgg	tggctctggg	tgggtacag	gctgtgaggg	gatctggggg	14040

gtggaggggt	tgctctagac	tcactgttct	gagggaaacac	acctgtaatc	ccagcacttt	14100
tggggggccga	ggcaggcaga	tcacttgagg	tcaggagttc	aagaccagcc	tggccaacat	14160
ggcaaaaccc	ggtctctact	aaaaatacaa	aaaaattagc	tgggcatggt	ggtccacgcc	14200
tgtaatccca	gctacttggt	aggctgaggt	gggcaaat	cttgaacccg	gggaggggca	14280
gaggttgtag	tgaggtgata	ttgagccact	gcactccagc	ctgggtggca	gagtgagact	14340
ccatctcaaa	aaaataaata	aataaaaata	ataaaaacaat	gcccattgtat	tgagcatgtg	14400
gcatgtgtca	ggtgctgtgt	gacacatctg	ctgcagtaac	atttaattgta	aagtaataac	14460
agaaatatgc	tgcatgtgat	gaaacacata	gtgtaatata	aatgcattat	atattagaaa	14520
attatataga	ataataaaca	tctacagcct	gacattcata	tgtaaaaaag	attagaataa	14580
taaaaaaat	tggtattttt	ttcaggaaaa	ataatataaa	ataatcacac	aaactaatat	14640
aaaagcagtt	aatactttga	ctcattttaat	ccttaactcc	ccagttcttc	tgaagttggg	14700
ggccagcgag	gaccctctgt	ggtgactctc	tgtctgaatg	caccaagact	gagctcgggg	14760
cccagccacg	caggatctga	gcagtggtgg	ccagagcggc	ggcgggcggg	ccagaggggt	14820
tactcacggc	cactaggatc	caaaagaacg	tcactgagag	gtgtgggcct	gaaactgagt	14880
catccacgtt	cagggcaatg	atccccccga	ggacggcaga	gatgcctgcg	attacctcga	14940
cgacctggag	gggacaggac	agcatcgggt	cataaggaag	tggagacacc	cccagattcc	15000
cagaatgcac	tgtgcagaca	tggaccccca	ggagcagggt	ccagtgggct	ggccagat	15060
ctaaccgtgg	aggagccac	ctggatggac	ccccagcctc	acctggccca	gacccccctc	15120
gccctcagct	gcggcttttc	acgtccctcc	tggagtataa	tagccaaaga	ggtgtttccc	15180
ccactgctgc	ttttgtccac	agaaactgag	ggtattgacc	tgacagtggg	gagggcagaa	15240
aaccaagacc	ctcagactcc	cttcctgtgc	tcacagtgtg	gcaggcggcg	gtgctcagac	15300
cctggacccc	atcgaaggga	ctcgggaaaa	caggcctggg	gcagaagtag	cttcccatac	15360
gacacaccca	cccggtgccat	gtgggtttgc	cattgccacg	gcaacactgg	acgtcaccac	15420
ccctttccgt	ggcaatgatc	caaccacctg	gacgttagca	cccctttttt	agaaatttct	15480
gcataatctg	ccccttaatt	agcatatact	taaaagtggg	tataaatagg	aggcagagct	15540
gtctctgagc	tgctgctcga	ggcacctgcc	ggttggagag	ccctgctata	ctgccactgc	15600
aaacaaagct	gctgtctgtc	acctccagct	cgcccttgaa	ttctttcctg	gacaaagcca	15660
agaaccctgc	tggcctaagc	cctggtttgt	gactcatctg	cccggcacca	tcaggggccgc	15720
aaccagcacc	gccagactca	gggagggggc	gcaaccagca	ccgccagact	cagggagggg	15780
ccgcaaccag	caccgccaga	ctcaggaggg	ggccgcgaac	agcaccgcca	gactcaggga	15840
gggctgggga	agaaacacac	gcccgaaaac	ctgctcccgt	gaagatctc	tgtgagtgcg	15900
aaacacagag	ctgtggccag	caggaaagcc	aggcataagg	agtgggccag	caagggcttg	15960
ggggccggaa	gggacctggg	cagccaggcc	ttgcgtccag	aaggcacaaa	actccagatg	16020
cacaaataaa	gctgaattcc	cagccaggca	cgccggctca	tgctgtaat	cctagcactt	16080
tgggaggccg	aggcagacgg	atcgtgaggt	caggagtttg	agtacagcct	ggccaacatg	16140
gtaaaccocg	tctctactaa	aaataacaaa	aattagctgg	gcgtggtggc	gggcacctgt	16200
aatcccagct	actcgggagg	ctgaggcggg	agaattcgct	caactcagga	ggcagaggtt	16260
gcagtgaacc	aagatcacac	cactgcactc	tagcctggc	aacagcagga	ctccatctca	16320
aaaaaaaagg	aaaaaaaata	aagaagcaga	acggaaatgg	aacctaagag	aggactgaaa	16380
tgctaaataa	ggggaagtga	aggcactggg	aaacacacac	agacacagtc	aagcacacag	16440
gaggtgtgcc	cattgttgga	gtaaaaaggc	aaaatgtcac	taaatgtcac	aagctagaca	16500
acaaggccaa	ggcggaggga	agggggacag	accccgcatg	gtctgtttat	caaggagcgt	16560
attagaatat	gaagggcaac	ccccaaaaga	atactgaaaa	atttcccata	caaaattaga	16620
gggaaaaggga	aggacggagc	ctctgccaat	tcaaaaagaag	gcagggaagg	agggaataag	16680
gcaaaatcag	ggaaaatgga	aaactcaaaa	gaggtaaaa	ataagtagaa	atttatcagt	16740
aataactctc	agaggaaatg	ggctacattc	aaaaagctag	ggagagagaa	tgacaagata	16800
aagaacaaaa	tacagttacg	tgctgcttat	aacaattata	ccaaagtaca	aggcaagaaa	16860
agttgaaagt	agaaggaga	aagaggccag	gtgcggtggc	tcacacctgt	aatcccagca	16920
ctttggaagg	cctgggtggg	tggatcactt	gaggtcagga	gttcgagacc	agcctggcca	16980
acatgccgaa	accctgcctc	tactaaaaat	aaaataatta	gccgggcgtg	gtggcatgtg	17040
cctgtagtcc	cagctcctca	ggaggctgag	gcaggagaat	tacttgaacc	tgggaggcag	17100
aggtggcggt	gagctgagat	agcaccctg	cacccagcc	tggctgatgg	agtgagactc	17160
cgtctcaaaa	aaaaaaaata	aattcctcgg	ggacaacagt	gtcaactcac	ctacggcagt	17220
aacaaaactcc	ccctaaaaat	tacaggacac	cagcagcacc	tttcgcgata	aggaaggtta	17280
ttaccaatga	taccaataac	agactagagt	ctccacagat	gaggcgcacg	ccgccatgg	17340
gtgtagacag	ccaactcttc	gccaactcgg	aatcgaaacg	tgacgtttta	tccagcctca	17400
gtcaccocccg	acagagtatg	agagaaaaaga	gaaagaaggg	aagttttctt	actgagtaag	17460

atttcaggac	ccgagcagga	aatggcactt	cgtccagaat	gttggcgctg	tcagacatgg	17520
agccctacga	agaaacagaa	dtgtaccccc	gggtgcacgg	gcacagggac	tcagcactgc	17580
cgctggcatc	cgcccgccgt	gggcagtggt	tcaggtcagc	ctgccgtgta	gatgagagac	17640
cgccctggag	gcgcccgtgg	atctttgggc	ttgaggaaat	gttcacacac	attgtccttg	17700
catatgaaaa	ttagcagatg	tgggtgtctc	tggatgatccc	ctggggacga	gactggact	17760
gagtcaggct	tagggggagg	ggaggggtaca	gcattctgtct	tcacctccct	gtagccagcg	17820
gccgccaacc	cctcaccag	ctccagagcc	cctcctggcc	ggggtttctg	agaccagga	17880
gagaggggtc	tcattgggaat	gccctggagc	agcccagatc	ggccctccga	gggtgacgt	17940
gagaccacc	tcgctaccc	tgggggtgatg	cctctgcacc	cctgcccctg	cggggtcaga	18000
agctgcaccc	accttctttt	tcttgacgtc	ctcctcgctg	gaccgtgcag	cgatgatcac	18060
cgtggccgcc	atgagcagct	ccagcaggag	cagcaggatg	aggttgaagt	tgatctgcca	18120
aggggcacac	acgcttcagc	accgggccc	cctttctcac	gccaccggc	ttcagcgtcc	18180
accggaccac	ctcacgggca	ggctgcgcag	gactctcagc	cacggtcccc	acttttccca	18240
tccagggcca	gctgtgaggc	actgtgggct	gcacactctc	ctgcctcaca	tgggcctttg	18300
gggtctttta	gtttttaaaa	ccattcttag	tgcaaaggct	gtacaaacac	aggccagggc	18360
tggatttggt	cttgggctct	ggctctaccga	ccccattctg	aacgctcctt	gttcccacaa	18420
aagccttcac	ggaatgttta	gagtagcttc	atgcatgatt	gtcaagcact	gagaaacata	18480
ggtttttttg	agggtaatga	aacgactgca	ggccctgacc	gtattggcag	tgacatgaat	18540
ttatatgtgt	gttaatatct	atagaagcat	acattttaaa	agtcagtgt	agctgtctga	18600
caattttttt	tttttttttg	agacggaggt	tcgctcttgt	tgcccaggct	ggagagcaaa	18660
tggcgcaatc	tcggctcacc	gcaacctctg	cctcctgggt	tcaaatgatt	gtcctgcctc	18720
agcctccga	gtaagctggg	gttacaggca	cctaccagca	cgcccggtta	attttgtatt	18780
tttagtagag	aggggtttct	ccatgttggt	caggctggtc	tcgaactcct	gacctcaggt	18840
gttccgcca	cctcggcctc	ccaaagtgtc	gagattacag	gcgtgagcca	ccgcgcccg	18900
cctgacaatt	tttaaaatac	atttaaaaaa	gaaagagtgc	agaaccacat	tcaactaaaa	18960
acagagcctc	gaaatatatg	atgtcataac	agagcacag	gaagatgtag	atatatcagt	19020
agaggtgggg	aaggacttga	aacacttttc	ttagaaactg	acagatcagg	cagagggagg	19080
cggctcacgc	ctgtgatccc	agcacttttg	gggaccgagg	cggttggtac	acctgaggtc	19140
aggagtcca	gaccagcctg	accaacatgg	tgaaccacct	tgtctactaa	aaatacaaaa	19200
atcagctggg	tacggtggcg	cacgcctgta	atcccagcta	ctcgggaggc	tgagacagga	19260
gaattgtctg	gcggaggtgg	gcgtgagccg	agatggagcc	actgcacctc		19320
agtctggggt	acagagcgag	actgtctcaa	aaaaaaaaaa	aatgacaga	tcaaaaagac	19380
aaaagcataa	ggagaactct	aaaattcaga	aaagtgtgac	attaaccttg	tcttttatatt	19440
tctgtatttc	tgggtgcttg	acctctggct	ccttctgat	cctgaagaga	cagctcctcc	19500
cagggccagc	cgacagctac	agtgtgtaac	ttgcctctga	gcagttcaga	tacaagccac	19560
tgaccaggg	accacacccc	atctgtcttc	cgtcttaata	aagaagcgct	acaggccggg	19620
cgcggtgggt	catacctgta	atcccagcac	tatgggaggc	cgaggtggat	ggatcacctg	19680
aggtcaggag	tacaaggcca	gcctggccaa	catgtgtgaa	ccttgtctgt	actaaaaata	19740
caaaaattag	ccgagtgtgg	tggcacacgc	ctgtaatccc	agctactcca	gaggctgagg	19800
caggagaatt	gcttgaaccc	gggaggtaga	ggttgcagtg	agccgagatg	gcgccactac	19860
actccagcct	gggcgacaga	gcgagattcc	ttctcaaaaa	caaaacaaaa	caaaacaaaa	19920
aggcagtgtg	ggtgttccca	ctgggtcctc	ctgtgtctgc	tcatttttcc	tgcccaacga	19980
gagtggccag	gacatactca	agcctcctcc	agctttcccc	aatcatcaag	tgcatcac	20040
atgtcacaca	aagcaggagg	ccctccttgc	agtatctcgg	atgaggtcct	ggtttccttt	20100
gggatttttg	tctttttttt	tttttttttt	tttttgagac	ggagtcttgc	tctgtcttcc	20160
aggctggagt	gcagtggcgc	catctcggct	cccacaacct	ctgcccccta	caatttcaca	20220
tttttgttta	gaggtgcatt	gaacaactgt	cttacacaga	ttggatgaaa	catagtatta	20280
tgtcactgtt	aatttttaag	gactgttgga	aaagacattg	tttaccaata	aatctgtccc	20340
gcagaatcac	gagacttcaa	taaagacaat	tattttcttt	ggatgcataa	atctctcaac	20400
tttagtcaaa	ctcacgagct	gtgaataaca	tttaccacct	atttcagctca	caacaaacat	20460
ttgctgacac	cattcgtggg	agtggggctg	tgggtgtcag	gcgtctgcgc	gaagctcgtg	20520
tgaactcacg	tttattgtct	atgggttcag	gactagtttg	catccaaacc	aaattaaaca	20580
cgtagtgttc	acagcaaacg	tggaaacaaa	caatatctga	aagttgggaa	tctgaaaaac	20640
aaggcaggag	gggttttctc	tctttgaata	ataaaaagaaa	aaaggttaaca	gataaaccac	20700
acttcaggcc	attcactaaa	aattatcctg	attaggacat	aatgggtggg	agtcctgcgt	20760
gctcagccc	ctctcccctc	tgtgcggcaa	aggctgggct	gggcaggagc	tttactgtct	20820
ggggggcaac	ctcggggggc	cctctcgggt	ccacaacgtc	tgtgggtggg	cacacacaca	20880

agcacacatg	ggcacactgt	ctgtcagccc	ctccggcttt	ctccctggca	gaggctgcct	20940
gcaagctaga	ctcaccacat	tggcgttcct	cctggagacg	gtgaagctca	caattgccga	21000
ggggatgcac	tggaatgaaa	ccggaatccc	atgagcctgc	cgctcacctg	agcaactgag	21060
actctgaaat	actctaacat	ttgcgcttcc	agaaggatct	gaatcatatt	cacaaaacag	21120
tgttgccagt	ccatgcaaca	cagtgggttg	gcttgactag	aaggccccc	ggtacttctc	21180
agttttaatt	ttttcttgag	atggggctctc	actctgttgc	ccaagctgat	cttaactttg	21240
ggctcaaatg	atctgttcac	ctcagcttcc	caaagccctg	cgattacagg	catgagccgc	21300
tgcgcccac	ccccaggtac	ttcaaaaataa	tttattctga	aagaagtttt	tatttttctg	21360
atgtgctaaa	aagataattt	ttaatgaagg	ctcttctagc	tggataagct	ttgaagccta	21420
gaatgtaact	cacgcaggca	caagacctgg	tctttgctga	aaattaccca	aaaaaggaaa	21480
aagtatcagc	cgggtgcagt	ggctcacacc	tctagtccca	actactccgg	aggctgagct	21540
gggaggatct	cttgagccca	ggagttcgag	gctgcagtga	gctgtgaata	ctcgggtgata	21600
gagtgcagcc	ttgtctcaaa	aaaagaaaaga	aagaaagaaa	gaaagaaaaga	aagaaagaaa	21660
gaaagaaaaga	ggaggtctgg	tgcagtggct	cacæctgta	atcccagtac	tttgggaggc	21720
tgaggcgggt	ggatcagagt	caggagtttg	agaccagcct	ggccaacata	gtgaaacccc	21780
atctctacta	aaatacaaaa	aaaaattagc	tgggcgtggg	ggcgggtgcc	tgtagtccca	21840
gctactcagg	aggctgaggc	aggagaattg	cttgaaccca	ggaggtggag	gttgagctga	21900
gcagagacgg	cgccattgca	ctccagcctg	tgtgacagag	caagactccg	tcaaagaaaag	21960
aaagaaagaa	aaaaagaaag	aaagaaagag	gaaggaagga	gcaaaggaag	tagcaagact	22020
ctgcatgtga	gggaggcaga	aaggagtccc	acagccttct	tgtcctcagc	cttcttgtcc	22080
ccacagggcc	acaccaaggc	taggagtcæ	gggccaggga	gggaggttgg	gacgtcaggg	22140
acagggaggt	ggatggagtc	gggccagccc	aggcctgttg	cccttgccgt	gcagggcctt	22200
gctcctgcag	ccatgggacc	ccgggccctg	agtcgggggt	gcaggccctg	aggggctgag	22260
cacagcagtg	ctgggtgagg	aggcagaaga	agccccgtcg	gggcctgagc	gaggggcaga	22320
gctagggcca	ggacagccag	gctcagctca	gcacccactc	aggtgccacg	agggcccagg	22380
gtagagaaga	aaggccgggg	gcagggccga	gtggggccaa	ggctgggcgg	gggtgggcac	22440
ttgcccatat	ccggcagccg	ctgaggctga	aggggcacag	ctcacagctc	cactgggaca	22500
agggcggtc	ccatgggtgag	gataaaggcc	acggagaagc	ttccagagag	ggcagcagag	22560
tgggacgggt	cacctgcccc	aaagggtctt	gttctaaggg	agcagagacc	caggacagca	22620
cggggcgggg	catccacttt	gtttttaaga	catttcgggg	gcgtgctgg	ggacagtcac	22680
caacagtgtc	ccatagaaa	gggcaggggc	cagagaccca	gcaggcatgt	ggæcgcaga	22740
ggaggggaga	gctcgggacc	agctgaagca	ggaggggctg	gggtccgcg	gcttgccggc	22800
cagaggggca	tgggtccgc	ggcttgccgg	ccagaggggc	atgggggtgcg	cggcttgccg	22860
gccagagggg	catggggtcc	atggcttgcg	ggccagagcc	caggggtcag	ccagcatggt	22920
gctctagctg	ccgggacgct	ggggaggcag	tggccggggg	tcacagagga	ccaggggaca	22980
gcggttgtct	gtcctccctt	gctctgagga	tcagtgggtg	cctccaccgg	ccttgccact	23040
gtgtaagttt	ctaaaaacac	aacatgaagc	tttgggagga	tgtggggcac	aggtcccagt	23100
cccctgaggg	cagatgtgc	cagctctggc	aggacgcagc	cgcaggctæ	gaatcaaac	23160
gcaattccct	gcacagcgct	ctgcagagca	aggttcaggc	ctgcttcac	agtaattctc	23220
aaagggtgatg	aactctacgt	gaaactaaag	tcatatgaag	agttttttgt	ttttttcttg	23280
ttgttgttgt	tttgagacga	agtttcactc	tcattgccca	ggctggagtg	cagtggcaca	23340
atctgggctc	actgcaacct	ccgcctccca	ggttcaagcg	attctcctgc	ctcagcctcc	23400
tgagtagctg	ggagtacagg	cacccaccac	cgcgcccg	taatttttgt	attttttagta	23460
gagatgggg	ttgtccatgt	tggtcagact	ggtctcaaac	acctgacctc	aggtgatcca	23520
cccacctcca	cccctcaaag	tgctggcatg	acagccatga	gcactgtgc	ccggcccata	23580
tgaagagggt	tgaatgaggt	acaggtgaca	gaaacctgca	catctcagaa	caaagaaacc	23640
agagcacgtg	ccggcgagct	tgggcaactg	cagaggcgctg	gaggaagctg	cttacagagc	23700
ctgcagcaca	gcgcaagtaa	tccatctcag	ccgggaacac	gttccccagg	tacagcgaaa	23760
accccgaggt	caccaggagg	cagctctgca	agacagcgac	agaatcccag	gttacaacgc	23820
gccccgtccc	caggctggac	cctgaccctt	caacttctgc	ttactgtct	gtgtattggt	23880
gactcaccca	cgtccccag	catcaaccac	acccgcacct	gggacccgcc	cactctggac	23940
tctcctgta	ggacagacgc	agccccgcgg	cagccaga	catggaccag	cctccccag	24000
ccatgtcgga	ccacagcacc	cccacgctgt	tatctggagg	agagaagaaa	ggggatctgc	24060
caatatattag	agcaaggaat	ggcaacctctc	cccacaaaat	actcctgccc	caacatgttg	24120
tgcgtgcagt	cttccagatc	ccacacccag	gtccagacac	gagactggaa	aacaactgcc	24180
catccccctc	cgtctgcaga	acctaatttc	cagatctgga	agaagatccc	tccaggcagg	24240
ggctccaggc	ccaggggctc	ctgagcaggg	aagaccctag	caggaggcag	ggaggggtgct	24300

ctctctcagc	cacagcactg	caggggtgcg	gtggggaggg	ggctctctct	cacgcacagc	24360
acccccgggg	tgagtctgag	gggagtcagt	atcaaaggctc	actgggaccc	agggctctgg	24420
cagaggaagc	gaggtctggg	gcagagggga	tctggcctgg	gcgggggagg	ggctgcgacc	24480
aagtccaggg	caccaggtgg	aggagggcag	agccccgaga	tggccaccac	cacccgggag	24540
ccgcctctgt	ccccagctcc	gaggcagacg	cctgtcttgg	tggggcatgc	tcaggccacg	24600
ggaggtgggc	aggaccactg	tgggtgctgc	aggggctgcc	ggcggaggcc	agggcacagg	24660
gaggggagaa	atcacagcct	ggatctcatt	ctcagcccaa	gctacacgga	accgggggtc	24720
cctgcataga	ggcctgtcct	gcagcatggc	tctgagcagc	tgacacact	caggcccaag	24780
tggctcctcc	aatcatctct	gtgcccagga	ctgtgcaggg	aatggccagg	accccaggga	24840
aatccctcgg	acatctggcg	ctgcccgtcc	accccagacc	tgttcctttg	ttccccagct	24900
ccctcccagc	cggccctga	ggccctccct	aggaggagga	ggtccctgag	gttctctctg	24960
tgagggccga	cctgaaggcc	tgagacgcct	cctcccacct	ttgcagggtga	cccccaagg	25020
gaccctgggc	ccccagagcc	gagggctcatg	gagactcctg	gggcccattc	atggccctgg	25080
gactgtccct	accctggtgg	gactaagcca	caacctggag	cagctcaagg	ctggcacaac	25140
agacacccat	aaattaataa	aaataattgt	gaaaacacaa	gcaaaacaag	ctcgtcggca	25200
tccaagagtt	ctgcagcagc	agggttagtc	tgagagttgc	tctctctgtc	ccacctgggg	25260
ctccaggcg	ctgcagtccg	tcaccagagg	gaccagatgc	tcgtggccct	ccaagggctt	25320
agtgtggagc	tactcacccc	catcagcaca	gagaagaccc	acgtcttgtg	gctgaagcag	25380
gggggcagtc	tcttcgacag	ctgcaggctc	ctcggttcg	cgtctggggc	aagctggcg	25440
gggtcttgcc	ggccccgctc	cagcgtgggc	atccgggtcat	aggccagctc	ctctctgaat	25500
ggctcctggg	tcatggcact	tggggacacc	acagctgtgc	tgaatgtaca	gccacgtgtc	25560
accagttctt	tatctggaat	aaaattatca	tcggctttgg	ccactctgag	gaaacttcaa	25620
taagttgttt	ccaagmata	ttttttaaca	aaagaaatat	tgttcatact	gaagtgtct	25680
aaatttgaag	aagaaaatga	gcacttgaat	ctaaaagtga	aaaagaaata	actttcctag	25740
aaaaacggac	ctgaatagtc	tgggttcagg	gtgagattct	acactttaaa	tgctcattg	25800
atccatctgg	gccctccagg	tgcaacacct	gacaacatcc	atcggcact	tcgtccatga	25860
acacatcacg	ccggggactc	aagcacgtta	aactgctcca	attggtagct	aaacgagaga	25920
ttgcaaaaaca	tgctcttact	caacggctta	atgtctgagc	acttacctcc	cccgtgtctc	25980
tgccgttggg	agcactggtc	tctgggtgag	ggacttccag	caagaagtat	tcacaaatga	26040
aacaaaagct	cagcaaactt	gagctgaagg	caggggaagg	agagctgctt	cctgaatatc	26100
aatgagggga	ggaatcgggt	ggatcgtaga	aatgtttcgt	gttggttgtg	taaaccactg	26160
cctcgg						26166

<210> 1056
 <211> 7029
 <212> DNA
 <213> Homo sapiens

<400> 1056						
ccaccaccgg	ccacctgagt	gtccgtgagc	gggccgaggg	gctcatcagg	tccagcctgg	60
gctcctccac	cagctccacc	ctgagcttcc	tcttcggcaa	gaggagcttt	tccagcgcgc	120
tcgtcatattc	cggactctct	gctgcggagg	ggggcaatac	cagtgcacacc	cagtcatcca	180
gcagcgtcaa	catcgtgatg	ggccccctcag	ccagggtgc	cagccaggcc	actcgggtaa	240
ggggctgggc	agggctcacc	aggacaggct	gggatgggtg	cacgggctcc	tggcctgagc	300
gtggcacctg	ccttgcgttc	ccacccttct	gctgcagaa	ccccatcccc	ttctctatgg	360
ggctcccaga	gtgacaaaagg	acagtgatta	gacacgaag	ggcttagctg	ctcttgaaag	420
cagacaagat	acagagcaga	tatcctgtaa	acgataatgc	ccaggcaggc	actgaaagga	480
gtcacccgat	acagaggttc	tgcaagaactg	tggccatctg	ccctacaccg	gggcatgacg	540
gagaatgccc	tccacccatt	cacacagcag	gactcttctc	acatgattct	ggcctgaggg	600
agaggaaaagg	acacctgtca	atgctggagt	tagagcttca	ctgcttctca	gccaatcgat	660
ttgacttttaa	agctgctgag	atggcccact	gcttttaggt	atttaaatac	tagacaagga	720
gagttctaag	gacttcaccc	aaataagctg	ttacttgtcc	agaatcccaa	accagctgag	780
atgaaatgaa	tacttgagct	tcttcagtga	gamaaagta	aataaataacc	cagcagtgct	840
cctatgtgac	ctggtagaca	gggaaaaatcg	atgggtgtcaa	ggcaaaaatg	ggtcaggttt	900
ggagagttcc	cccactcctt	ttgagtgttc	aggttttcct	taccatggct	catgctttcc	960
atcaagcacc	agagttgcag	tggcttgggc	tctggttctg	ggtgagggtta	tttgagggtg	1020
gagacggggg	gctgcacctg	aacattttcta	gtgtcacccct	ccctctcctt	catgggaaac	1080

agctctccag	ggaagtaacct	tcctgccagg	ggaagccaag	gctggggccgg	ccgccctaca	1140
aggagccaca	ggattgcagc	catgggtgcc	acctttcatg	gaaggggaga	tttatgggct	1200
ttcctggaac	ccccaggctg	tcctggc aa	gaggaaagag	gtgggttactt	caggagtttg	1260
accttagtta	gataactaaa	agaatacatt	tcccctccct	tttctttatt	tcctcaataa	1320
aaatgtacaa	agtatcacc	ttctccatgc	cccaatctgt	gttaaagtca	caatctatgg	1380
gtgtagttct	gggattctgt	caaattctcc	ttcctgctct	ccaaaatgga	caattgtctg	1440
agggaccaca	tgcccccaga	atacaatggc	ctctgtgttc	tactgggggtc	aagcctgcta	1500
gaactcagca	ttcatgacag	gggctaagt	tgcatgaagt	gacactgact	acagctagaa	1560
agccaggcgc	acaaatgccc	cttcccccca	ggg cc gctct	ttccagcgca	gtcatccaga	1620
aaggccacg	tg c agagccc	ctgtgtctca	gatgctgctt	cagttgcccg	tcctgtcctc	1680
agaggccact	gtgctggccc	tctatcattt	gacctgactt	tagaacctga	cctcaaggat	1740
atggcagcgc	tagcctttag	ctcccacagc	acggatgggg	gtgatgccag	ttagaagtgg	1800
gtagtgaacg	tttgctgagc	tgttccactgt	ttctctcttc	tctttggaag	cactctccg	1860
agccatgtga	gccccctgat	gccaccgagc	aggggcagct	tcatgaccga	tgtctggctg	1920
aggctgtggc	ggacactctc	ggggttgtct	gcaggagagc	aagccaggag	gacatggggc	1980
tggacgacac	ggcctcgag	caaagtgtgt	cagacgagca	gtgacggg cg	tgcgggcccg	2040
cggggaggct	ggctcccca	cacctcccac	ctgcattgct	ctccctcgtg	ctccc aa aat	2100
caccacaacc	aaccaatacc	gcatccatg	agggactcct	cctgtggaaa	aggagagctg	2160
ttccagaaca	cagaactgat	ctcaggtttt	tga aaaa aaaa	aaaaaaaaaa	aaaaaaaa aa t	2220
caaacaacaa	caacaaaaaa	acctcacatg	atggggaaac	aaaaaaagc	aacaaagaag	2280
ccacaccaca	cctccctggc	caggcacagc	gctgcccaga	gcggcacacc	gcggacagca	2340
ccacacatgt	tccagaatct	gaaatctcaa	aagccattca	ctaacttaaa	acaactcaac	2400
agagccatga	aacaaatgcc	ctgatgaaaa	taagacaact	gcatgttaca	tcatcggcac	2460
tttatacatt	actgtttacca	tga aaaa agaa	atgaacagca	gcacgtctga	taccatcagc	2520
tgggcagatg	cattaagggtt	aaatctaagt	gtcaagaaaa	ccctatttct	ttataatatt	2580
tatgcagctg	ttaagcgtaa	catggtggca	gcttcacaac	aagaaccgtg	atcatgcatg	2640
cagtcatgtc	tccagtattc	tgtgaaaagc	caggatacgt	tggatgtga	gtttaga aa c	2700
tgagtccatt	cgggtgcatg	aaatccaccg	cggagtcaca	caatgctcct	cactgtagtc	2760
caggcgattg	gtgggcccgc	agcaccctgc	gggcttcaca	gggacgcgtg	cttgttctcc	2820
aagccccgca	acccttactg	tgcacacaac	atcgcacaca	cctttgtttt	tga aa attaaa	2880
atgtttatag	tattgttacc	gtccagtgtt	ttgagttata	ctgaagcttc	tcatttctac	2940
aagtatatct	tttatgggtga	gaacgacatt	tgggtaaatt	ctgagacaac	ttttcccatc	3000
ttcaagaccc	caggaacctg	tatccttgct	ggggtagagg	tccca aa aatg	cagtccatag	3060
agtatcactg	gcctggtgaa	ccatcccttt	tca aaa gca	atagttagaa	ggaaatactc	3120
aatttttaac	agtcacacaa	atttcttcaa	agtatttagg	atttgga aa t	ttgaggagag	3180
ggttggggga	agggtattgt	agagaatctc	ttgccccttg	gaaagta aa t	ggtaatgctt	3240
ttctaatttt	tttttttgta	aactaagaat	cagcaattaa	taaaagcaag	tgtactctat	3300
aatcacagac	agaaggttct	tattttcagg	tcagcactcc	ctagaggtgc	aaactttatt	3360
taatttta aa t	gcaggtgttt	gtctaattgg	aagcttgatg	ggccttgctg	cagttctcta	3420
agggtggccaa	attaaacttg	gctggcagct	cctgtaatcc	tcttgggcaa	ctttacagcc	3480
aagccccaa g	ggctaaatgg	caggcctgga	gtgtgagt g	tggcctcccc	acggagggtg	3540
actccttgag	ttcagtgagg	aaaaccacgg	tgcctggcag	tggtcagcca	ggagtatgac	3600
tggccactcc	ttaggcatcc	agaagtagga	aacacagaaa	gcattccaca	aaacggggaa	3660
tctccccaaa	gagctagaaa	cccaggctgg	aaggaaaatg	cagcgcaggc	aagagagcaa	3720
gagcacctg	ggtgctcctc	catcccgttt	ctctggggag	gttcatgagg	tgcttcttca	3780
acagttattc	tgttcattgc	ttatcacagt	tcacgagttc	tcgtggcatc	ttttgtggg	3840
aggagggagg	atgaaagtga	cacagtgtat	ctacaacact	aaggtcacat	taatcagata	3900
ggaatgcagt	gacgctctgc	accgt da tg	agagcgggca	tctcgagtgt	gcataccgag	3960
gcacagatgt	gcacacacat	ccgcaggcaa	ctgcaccac	agagaaaagg	tggcagtatt	4020
ggagtacccc	caggattctt	gggggctgtt	tgaccagcca	tcaacagtgc	agccatactt	4080
ctttttcttt	tttatcgtgg	tacacaactt	ttatat tt tac	aactcatgaa	cttgtt at c	4140
tggtccttca	tctagtacgc	tatgtatcag	aaaggacttc	ctgca aa atg	ttatat tt cta	4200
agccccatt	tagaggaggc	atccctaaac	tgctagagtt	gttca aa at	gttca aa at	4260
tctgccagta	tatagctaaa	gagttat tt t	ccagttcaag	agttatttgg	gggctgggca	4320
cgggtggctca	cgctgtaat	cccagcactt	ttgtaggctg	aggcaggcaa	atcatgaggt	4380
caggagtctg	agaccagctt	ggccaacatg	gtgaaacccc	gtctctacta	aaaataca aa	4440
aaattagctg	ggcgtggtgg	cgggtgcctg	taatcccagc	tactcaggag	gttgaggcag	4500

gagaatcgct	tgaacccagg	aggcggaggt	tacagtgagc	cgagatagca	cactgcact	4560
ccagctcaag	cgacagagtg	agactctgtc	tcaaaaaaaaa	aaaaaaaaaa	aagagttatt	4620
tggacacaga	tcaaaatggt	ttctcctcta	aagataatat	taaaaccata	gcacttgggt	4680
ttatataaat	catgtggcca	atgttgccatt	attgattcta	aattttgcag	tgtgttgaaa	4740
tcattctggca	agtaatttgt	taaaatcatg	cgatgcttca	acttctttgc	ccacaaaatg	4800
tgcaatgcaa	tgcctgttta	cttagcccac	ccgtctccag	cctcatctac	catgctgttt	4860
tgtcccaagt	cactatgcta	cacaagcatc	cgccatcagc	acacacacag	gtgtgatcca	4920
cagacacaac	cttctatgaa	tacggtaatt	ggcaggaaaa	gaagagagc	aggtctgttc	4980
cacattttcc	agcccaccag	cgttcccacc	cccttgataa	ctggagggct	gggaactgag	5040
tgcctgaatt	tgcagcttta	ctaggatctc	tccctgtcaa	ggctgatcat	cagagatgac	5100
actatccatt	taaaagactc	acccatctcc	ctgcatgtgc	ttaccctcac	tgagaggtaa	5160
gaagaaacaa	tttattaaac	tattacgtgt	taagcagctg	gcggtatgat	ctgctaagga	5220
ggaaaaggaa	agaatgattt	agtaaatcgt	gcttcaaatc	agtcctgatt	cctcccatcc	5280
gaccttgtaa	ttctagctga	gattcttcat	ataagcaata	catgttaatt	ctgtgctttt	5340
caaattgaat	tcctccctga	gactcatatc	caaccatctgt	ttagatatatt	tgctttgttt	5400
gaataggagg	cattccaaac	tcaggataaa	gagaatccct	gacttcaatc	tgccctgtcg	5460
ccccaccacc	accatccggc	aagagctcct	cacctcagcc	gtggcaccga	cagggagggt	5520
gcgctcagct	ctgctcctct	catcctggct	gcgtgcaggg	aggggacggt	cacgtggagt	5580
tctgccacgg	cacctcttct	tcctttaaat	ctcagcatga	cactgttgct	acaggctgtg	5640
tgcgtttggc	cctgagttct	agttatctgt	gaattcatct	tatccttcat	taaatgtcat	5700
tgccttacia	tacagggatt	gcattctgaca	tctccataca	tgctccatga	tcattctgtt	5760
tgactaatac	aacaatcatt	tcaggacctc	accaaaagag	acactaaacg	ttctttggat	5820
ttacagcagt	ttatcactgc	taaatgtcaa	ctctgaggtc	tgggggcaca	aaacacacta	5880
aaaatgctaa	agcctcaaga	aggacgcagc	agggagtgat	gaaagagtga	actttggagc	5940
cacgcagacg	tgggttcaaa	tctcctttgt	caccgctatc	actgtgctcc	tgaacgaacc	6000
acttaaacac	tccaagcttg	tctctttacc	gttaaaggga	aagtgtgcag	aagctcccgc	6060
agccccaagt	gctagggggc	accctgaatc	tgttccacac	aagtgcatac	tttcaagtag	6120
gcagtgcacac	tcccacccca	cataagcaca	actggcttca	gtgataagcc	cctcagacta	6180
gctattttaac	tttgaaataa	ccttcaccag	ctttctttct	catttaagac	aaaatcaaag	6240
tctacaaaaa	agacacggct	gaaacaccaa	gctcaaaagg	acaagcacca	gaaggaacat	6300
ggcccttggt	gtttcagatg	catgaagggc	ggaaacgcaa	aacggcctcc	cggagggtcc	6360
aggaaaggct	ccatcttgat	gggggtccac	tccagctggg	gctgaccagc	tccaccacgc	6420
ctgggtgcac	attgatgaca	tttccccagc	ctgcctccct	atctcttggt	tctcctgagg	6480
gctgtggtac	tttcagattt	acggccagga	tcagggtccc	aggcctttgt	gggaagcctc	6540
tacccaactc	agaggccgtg	cctctcctgg	cccactgagg	catgcagccc	acaccggtgt	6600
cctggtgatg	gtggctggaa	gtcagagcca	gcctgccaga	catcctgagc	tcggaactca	6660
gtctccctga	acagccccgc	caggcaggga	ctgtggaagg	agatgcccac	ttcctctctc	6720
tgggcaggta	gcccctttga	gggcttagtt	cataatctat	taggcctccc	tgttggtgtc	6780
cctccaaggc	taggcaagtc	caagtcaagc	ttcacaaagt	tacctcgga	gaaaacgct	6840
gaggaaagag	acactgatgg	aggaaaccaga	cctgggctgc	gtgccatttt	ggttttgatg	6900
tgagcccctc	ccgcccattt	cactgtgccc	cagtgcacag	cccagggtct	ctcaccgcgc	6960
acatgcccga	cttgtccaca	gttagagaga	aggcacactg	ctgcttatac	cagtgggttt	7020
gtagccaat						7029

<210> 1057
 <211> 28215
 <212> DNA
 <213> Homo sapiens

<400> 1057						
tcctgtctgt	aaccatcaga	tttattttta	tatttattaa	gcagtaagca	aacagagttg	60
ggggagatga	cctaaaaatg	ttttcttttg	gaataatatt	ttttaaaaaa	taataaact	120
gttatcactt	taagttgcat	gaggctgaag	ctgcacctgg	agagggaattt	aattttcatg	180
acatgcaaaa	ctgattaggc	agtgaactct	ttcctccgc	ttcccctgaa	cacatttata	240
aacttcaacg	ggggtgaatt	ccatctaata	ctctgaaaac	catttctcat	ctcacagttt	300
acccaaatca	tgtgatgac	tgcaagagga	aataaacaag	aaatctttta	gcatagataa	360
gccacaatgg	atagttaatc	ttgtacagac	aatccagcat	taaggctaata	ttgatctttt	420

aaacatttta	tgggaaacag	ctgttgagtt	ttctctagaa	aagcccacaa	ggttcataa	480
ccccataggc	atacagcctc	gacaggcagg	gctccatcag	gctcctttg	aactgggcac	540
tccttcacgg	aaggcaggaa	tgcacgtgtc	ttcacttctc	gctgctctgc	acgcacgtca	600
cgatatctgg	cagaaggtgg	tttctgtttt	ccttggtgac	ctgtgggaag	aagtgaagaa	660
acaggcttca	gagctccttt	cctcttcttc	aatcttgtgc	taggtaactc	tctaaaagaa	720
acgcctggaa	ggctgggaga	gggtgaggta	tgttttggtt	cccaggcagg	aggcccagct	780
cttcaggagc	actcagaaac	aggacaggaa	tcaccgagtc	ccagcatcag	tttctgccaa	840
gtgacagctc	aaaaagtcaa	agtgggtttg	gagcccagac	agatttcagc	caaccatggg	900
gagagctgtg	aagtgaagtc	gacgaggcac	accgggacgg	atgatgggca	cacaggaccc	960
ctgagcacga	cctgtcctga	atggaaggaa	ctcaactgtt	ggagtgaagc	gaggaggaga	1020
gcctgggagc	cagcggggcc	caggagggca	cccagcagag	cagcagtga	gcgcccagga	1080
ttctgggatg	ctcagtcac	taccgcctc	tccacaaaca	tcaagtgtc	atttgaaaca	1140
tggagaagtg	ggagagccag	agacgtgagg	gtgcctccgt	acagactgtt	actcaggcct	1200
cctgactgca	gtgtgttctc	caacacttac	accattacaa	aatcaacaa	aagcaacaaa	1260
gagttcacca	gagctttacc	cgatgatctc	tttatttttc	tttactacc	acaccattcc	1320
gagttcccca	gggtaaagga	agggccatct	ctgtcccat	cacagtgcct	tcctacttgg	1380
cccatataat	atccatccac	tcaacacacg	ctgattgggt	ggaagggcaa	acaggagcca	1440
ggcacagaga	tgcgcataga	gaagcaccac	aggtaaggac	cctgacctca	tggagctcgc	1500
agaccaggac	aggacaggca	tgaacaagga	caatgaagga	gtctgggggg	caggcaggaa	1560
caggggcatg	tgtgggggtc	ggggcaggaa	aggcttccag	gggtgcttaa	gcctggatgt	1620
aatttcgaca	ggtgaaccat	ggaaaagggg	ctgagccaag	gttcccggta	agagcaggga	1680
gtgcatgtgg	aagccttctg	aggttcaggg	tggttgtatc	tgaagagggg	gcctggcata	1740
caataggtgc	caatacatgt	ctgaagagga	gatgcagagc	ggacctcgtc	aattctgggt	1800
cctggcacct	gctcaccttt	cttggaagag	tgctctgggt	gtcttttaga	gactgtacgg	1860
tctaggaaac	ttgccccag	ccaacaagt	ggcaagccag	gccctggcaa	cttctctgag	1920
atctgtaccc	caagaggagt	gactgagatc	tgcaccccaa	gaggagttag	ctcacgcagc	1980
aagtgccaga	agctgatccc	atttctactg	gtcctggctg	cgtaaatccc	gtgatcccat	2040
ttctactgg	cctggctgcg	tcagtcccgt	gatcccattt	ctaccgggtc	tggctgcgtc	2100
aatcctgtga	tcccattttc	actggctcct	gctgcgtcaa	tcctgggcgg	ctgtggctcc	2160
acttgaaatg	aggacagtca	gcttttctt	tggcttcatg	ggacagctcc	aaagcctata	2220
aggctttttg	atgtgtttt	cacttaagtt	agccaaagtc	cattcctggt	gtttgtaccc	2280
aaggaatcca	cctgaggtag	aaaggaggcg	acacagaggt	gggcaccaca	ggggcccttt	2340
tcttccactc	tgagttcagc	agtgattgca	gtagcttctg	cctccagcca	ggcttctgta	2400
gagtgagctg	tgatacacag	ctggagaatt	tgctctgggt	ttctatgaca	cagtacgggt	2460
actacagagt	aaataacaag	gtagtgtata	tttcaagata	gctagaagag	aagattttga	2520
atgtcatcac	cacaaaaatg	ataattttaa	gtgacagata	tggaaattac	cctgatttga	2580
tcattatata	atgtataca	gcactgaaac	atcacactgt	accccataaa	tatgtacatt	2640
atatcaatta	caaattaaaa	attaatttga	aaatttgagc	gaatgcaaac	actccaatat	2700
taatattttg	atactccctt	tgatttccct	aagattattt	ctgaaaatta	tgcaataaaa	2760
tgttgatgtg	caactctctg	cagtattcac	ttatgatatt	ccctgttgagaa	aaagcacac	2820
tcccaaattg	aagaacaagg	atcacagcat	ctgccaacct	caggagtctt	tgctttatgt	2880
gaaattctag	tctacttttt	attcaacagc	cagaattttg	gttgagaaa	gcctttcctg	2940
agaagcta	tagaagaggg	aactgggagc	tgggagcagg	aaaaggaaat	aaagaagact	3000
gcagaaagaa	gaaagtaatc	ccaaccattc	tttttttctg	cactggagcc	ttaagagaaa	3060
gaaagggaagc	tgagtgaacc	tgaacccttg	cacctgcca	gtggctgtag	gggggccctt	3120
ggtaagaatt	tatcctgggc	acagtgaaga	taagactgtg	agcaccatgg	ggtcagaggc	3180
cacatctcat	tcactcctgt	acctccagat	ccaatccctt	gctatttagg	aatgttgggg	3240
gcccttccca	cagtttcaag	gaaatgcatg	tggttttgtt	ttgctttctt	gcacatagtt	3300
gtatactaag	aggcattttc	tcccctgcct	gctccatcca	tgttttcagg	tctgggggtg	3360
ttaaagttag	aacataagca	ggacccagta	tctggtactg	catctgtgcc	cagcagatga	3420
gtcaagtact	gtctctcgcc	gtacctaggc	caaccagatg	agaagacaaa	tttgtgatat	3480
caccacctca	acttcttatt	taacaatca	agaagcggga	aggggagact	gagcagggca	3540
tacagacact	gatcatatta	aacaagttag	aggcagtgga	ggtagcatgc	aagcagcctg	3600
gaagatcaga	taatatccac	tactgctg	caagaacatg	tgcaccccaa	ggtctaaaca	3660
agaggcttag	tcatactatg	aagctgccag	cttgaaaaag	aactaaagtt	gttgataaca	3720
ttttcaatgt	tatgacatta	actagaaggc	agcaaatca	atcaatgaca	cactcattgg	3780
gatacaatgg	gataaaactc	aatgggatac	aatggtaata	acctcttaga	gttctgaaaa	3840

acaaattatt	gaagaaccca	taagtcacct	gctatgattt	gactgtgtcc	cccacatttc	3900
atgtgttggg	aacttaaccc	ccatgcaa	agaggtggga	cctttaagag	gtgattaggt	3960
catgggggca	gccctcatga	atggattaat	gccattatag	tgggaggag	tgagttatgg	4020
caggactggg	ttactgataa	aatgatgtct	ggctccct	ctctattgtt	cactgctaaa	4080
actccagtgg	atagaacagt	acctgacata	cagtgcgtgc	tcaatattta	ccaaatagat	4140
gaataaaaaat	actccatcac	caattttcttc	tactgatgct	ttactaggta	ataggagggtg	4200
ccaaagattg	tatcagtggg	attttatttt	ccttctcagg	tactgttctt	tcttttcttt	4260
tttcagctat	tttttttaac	acatcagaga	atgttatcgt	tttgccctcaa	ctgtcaaaca	4320
taattcttca	aaagtcaaca	gaggaagaaa	agcccactac	actcactcag	agttttactc	4380
ttcccattgt	tctttcttc	ttcctgatgt	tccagggtctc	ccttttaccat	ttcctttctg	4440
ataagagaac	ttcctttggc	cattctttta	gagcagttct	attatgacaa	attctcttag	4500
ttttccttca	tctgtgaatg	tcttatagaa	ttatgagtcg	acagttgttt	caacacttgg	4560
aaaatgtacc	acctccttct	ggccttcatg	gtttctcctg	agaaatctgc	tgctcactcat	4620
attgttttta	ccctataggt	aagggtgctgc	tttcctttca	ctgctttcaa	gactttta	4680
ttcataagtt	tgactatggg	atgtcttggc	atgaatttga	gtttatcctc	ttgggggttca	4740
ctgaaaatgt	aggtttatgt	cctttgccaa	atatgacaaa	aatgcagcca	ttacttcttc	4800
aaacactttt	tcaacccac	actcatctcc	tgttactaca	atgatgtgaa	tgctcacatct	4860
tttgttatag	ttccacaggt	ccagaaaact	ctgttcattt	tggttcattac	tttttctttt	4920
aagtctgtct	tttgtcaggt	aatttctatt	gttctacctt	caagttcact	gattctttct	4980
cctgtcatct	ctattctgct	gatgagccca	ttcagtgact	tttttattgg	ctattgtata	5040
gttctaaaaat	tttcatttga	ttcttctatc	ttctagggtt	ttgctgaaac	ttccagttc	5100
ttgctgagac	tatttttcat	ttgtttcatg	tgatctgtga	attttatgaa	gcatttttat	5160
gatagctgtt	ttcaaactct	tgccctataa	ttccactatc	tgagtcacct	tgctgttgag	5220
atctgctgat	ggcctttcct	cactcaggtt	taggtattcc	tgattcttgg	catgacaaat	5280
gattttcagt	tgtgtctgtt	gtgttgttcc	ttaggtcctt	aggttcctag	ccagtctgtc	5340
tttttctctt	cacttttctag	gtcttcttat	gcttgtatta	taaataacat	ccttagcagg	5400
aaaaataaac	acaagtgtgt	ctactctatc	ttgtctaaaa	ctggaagagt	tctcgggtgt	5460
ttttggaag	tactctgttc	acccaacgtt	atgaagaata	agtcaagaa	atattactaa	5520
tttgtgtggt	atatttcccc	catatcatga	gtcagtcctc	atcttcacac	tatgcatatt	5580
cattggaag	tactctgttc	acccaacatt	gtgaagaata	agtctagata	atattactaa	5640
ttcgtgtggt	acatttcccc	catatcacgg	gtcagtcctc	atcttcacac	tacgcatgtt	5700
cagctggtag	caaggggacg	ctgactctga	ccctttttca	tagctcattt	tcttacctgg	5760
aatgttctcc	cttctttttc	ccatttcttc	cttcaagagc	caactcaaga	accccttctc	5820
ttggacacct	ctccactacc	actgctcaca	tagatctctc	ccttccctgc	ccctagattt	5880
tgattgcccc	atggtctgtt	tttcttgagg	gcagagatca	tgctcacag	gtgcctaaac	5940
gatggactaa	gtactgaatg	tgaagggcac	tctcaaaaaa	ggattcggat	actttattgc	6000
atgtgagcaa	tggaaagaac	ccaaaaatat	atctaatcca	acacctaagt	ttgcagataa	6060
agaaaatgag	gttcttggcc	aggcacagtg	gctcatgcct	ataattccaa	cactttgaga	6120
ggctgaggca	ggcagattgt	ttcagctctt	caattcgaga	tcaacccccg	gcaacatggt	6180
gaaaccccat	ctctacaaaa	aatgcacaaa	tgagtcaggt	gtggtggcac	atgcctgtag	6240
tcccagcttt	ttgggaggct	gaggtggagg	atggcttcag	cctaggaggc	agaggatgca	6300
gtgagccaag	agcatgccac	tgcactccag	catgggcac	agagactaac	cttgtctcag	6360
aaaaaaaagaa	aatgagggtt	ttgatattata	aaactggaaa	aggccaggca	cagtggctca	6420
cacctgtaat	cccagcacag	attactctgg	gcaacagagc	aagactctgt	ccctccccct	6480
caaaaaataa	agttaataa	aaaataaaat	aaaactgaaa	cagaaggacc	acacaaaccc	6540
caaagcaaca	acaacaaaaa	aaaacagggt	atgtcagccc	ctatctctta	cttaattaac	6600
tcaaagctaa	ttgttttatt	tacagatcat	tagaagcaat	gattatcttg	cctggagaat	6660
aatttttagt	ctcagagagc	ggaagaaatg	tggtatgatc	ctaagacaca	aagtctgttt	6720
ctgggcatca	cagtcagctc	ctttcaatcc	ttccttagga	ctgttagatt	agattagttt	6780
gtggaactag	ccaatccctg	gagtctaaca	ctagcaattt	cccggctctc	cagcctagaa	6840
gctatctgac	ctcaaaaacta	attttctttc	atgatctttc	actattcatt	gccttgattt	6900
ccatggaaac	tctataatca	caaccaaaaa	tgtaaaaata	gagaagacga	catgaaactc	6960
tgaagaaccc	cacagacttt	tcagggtctc	caaatgtcac	ctccttgaag	agaccttccc	7020
tgatcgccct	tgtactcct	gcccccaact	accacattgc	ctggtttctt	tatttttgcc	7080
tttatcagta	tctgaaattg	cttaacttat	ctgttcacat	ttttggtatt	cagctcctcc	7140
attagaatgt	aagctccatg	aaagcagcgc	cttggtcagt	ctcgttcacc	acagtatccc	7200
aagacttaga	atgacaccta	gcatacagta	ggtgtcfaat	cactattgac	caaatgaagg	7260

aataaataaa	tcaataaaga	agcgcataca	tttttccaag	tctggctggt	ctaaccctaa	7320
tggctgttta	ccaccacact	ccaggattct	tgggtggcaac	atgtgggatac	tccagggtac	7380
tttgggtggca	acatgtggat	actgccagtg	ggccaagggtg	acattttcact	cagtgtattaa	7440
aatgatcatg	aggaagggtgc	tcacgggtac	tactctcca	ctccccctga	taggagtggc	7500
cctgcctgcc	tgacttggtc	acttggcact	tgcagggcc	gggagctttt	aaactggggg	7560
tggggagtga	ggtgtgtgag	cagagctcag	ccaagagcac	agctaccact	gactcaaaga	7620
aactaagggt	aggggttggg	gagaagcaat	atctgactga	gaggaaaaca	gagggacaac	7680
agggaaagaa	aggcaagaat	ttagacaaag	tgccagcaat	gccatgagtc	ccttccgact	7740
ggctcagacg	ctgccactgg	tcaacaagcc	ctagcccctc	atctctcaca	gtgggtctac	7800
agcagtgtct	ctcaaagtgc	gggggacct	aaaaccacat	gagaacttgc	cagaacagat	7860
catggggcca	tccccagag	tttgactcct	tggaccaggg	caaggcccac	tcccaggtga	7920
tgcccatgct	gccattctgc	aagcctcaca	ctgagtggca	catcctacag	atgcactagt	7980
gaatgtagca	gccacacgag	accacagagc	acctcagatg	tggccagtgt	gactgagaat	8040
ccaaatgttt	aattcaattt	aaatttgatt	atztatgtga	ttaaataaat	aattcaattt	8100
aaatatgatt	aaatttatta	aacataaata	gcgagatgtg	gctagtcgct	actgttctga	8160
gcaatgcaga	gagcacattt	ccctcactac	tgggaagtgc	aactggcg	tgctgtctct	8220
cagcacctgg	aagctgtgtc	tcccaacaca	tccacagcct	cttctcccca	caagcacaag	8280
tgggtcagct	ttaaaaggga	aatctttaaa	acaaaacaaa	aaatatgtgc	ctctgtatcc	8340
caacctggcg	cctttcaatc	tgagaagaga	taagcttaga	acaagcacct	tagctcaggc	8400
aattctgatg	ccagagaggt	cctagtgtct	ggtgaggaga	tgggaagaaa	aagcagccag	8460
aacaactggg	accgtcagga	ggccccccca	taagcgagtt	tgttttttca	tcaagtagag	8520
gtataattta	agttctatac	atttctagaa	aattagactc	acctacattt	cagcatggaa	8580
gggaaaaaat	gttaactcaa	aaccaaagag	atatttttaga	gccatctgct	attttagatc	8640
atctgctcca	tttccactga	ttatggagga	ctggctgtac	tcacattaaa	caccttcaca	8700
tcctttctgt	ttctgatttc	ttctacaaga	gccagtggct	ttcctttagg	aactgggatt	8760
gtgccaagga	ttatagtccc	tggggtagac	agcgtctgac	gaacagcttg	aatgaaaagc	8820
tgactgaaga	gtccatctct	cccaatctca	tcgatgacgc	acactctttg	ccctgggcca	8880
ctgctgcagt	cggcctgaga	atgacaaaga	ctttcactgg	gacatcagag	tcacattaat	8940
caaagggccc	atgggtccca	ctccccaatc	actcaccaat	gaggtaaaaa	agacagaaac	9000
ctttttactg	gatttcaaaa	agtgcacaga	tcccagagac	caccgctggt	actgtgtggg	9060
agggtactgc	acaagggtga	gtcccaggag	ctgggaatca	ttaggactct	tggaaactgg	9120
cagctatgcc	gttcaccagt	gggatgttca	aggaagtaac	ggacataaat	tggataaaag	9180
tcagtagaaa	gagaatctga	gatctaaagg	atgcaattgt	acttactttt	ttttcccctt	9240
tagccaagac	ttgtttcctt	ttaattttca	cttttttcca	acaacgctta	tggaccagat	9300
catgaaatac	acaaacatct	acctagagca	gttatctccc	ccccagcacg	tagggaatct	9360
catatggctc	aaaatggaaa	aaagaggcca	ttattatcaa	caaaggctcc	catgcttgct	9420
gtctcacttt	ttttaagcct	gaggtatttg	ggtgccactt	attttctggt	tgtatataaa	9480
tataaagcct	gatctctgtc	ttggatcccc	tctctgaat	cactcactct	gggggaagag	9540
aagtgtatg	ctgtgaggat	actcaggcag	ctgacggtga	ggtccacgtg	gtgaggcact	9600
gaggcctcat	gccaacagcc	aagaggaaat	gaacctgcca	gcaaccacat	gagcaagctt	9660
agaggcaggg	ccctcccagg	caagcctcag	atgaccacag	ccccagccaa	cagcttgact	9720
gcaacctcag	aaccccagct	aagctgtacc	tggattcctg	atcctcagat	actgtgtaca	9780
ataatgtgtt	tgttgtttta	agctgctaaa	ttttgagata	acttgttcca	tagcaacata	9840
taactaacac	acatgtcctc	tataaaagc	cttcctgggg	aaggctgaca	ggactttggt	9900
tgattctttc	ctgggagggg	caaaacagaa	catgtaataa	acacttcaat	gaatggtgaa	9960
tgacaaatac	accttatata	tgtttgtata	catgattatt	ttgaaaactg	tatgtaaagc	10020
tgattttacaa	agtattcttc	actacagttc	tgattcctta	aatgatgaca	gcaa#tagt	10080
cctagagggc	atgtctgagt	taagctagat	tttgttcaaa	ttccaaaagc	caaagcagca	10140
tatggtacag	tgtggctggt	ggtagggatc	agtggcaacc	aggggcagcc	agtgcagac	10200
ggggctgctg	gccagatcc	taaaggcctt	cgaaggcaca	cacagagggtg	ggaatcttct	10260
cccacagccg	aaagagtcta	atccaggggg	gatcacaagt	tgtgctagaa	agactgctgg	10320
ctgtggagtc	agaaacaaat	gtagactcc	ttttggaata	gacaagataa	gatagtgggt	10380
gtctaaaccc	cagttgtgat	tgacgggaag	cagtacagca	gtgtttttca	gacttttaag	10440
taaacagtac	tctattttcc	tactgcata	tgtacactta	tgaaatat	tttccattcat	10500
tttattagct	aaaagatcaa	taaggagtcc	actgtaatca	cccaagagag	gtctgaacaa	10560
tctccgcact	tctgtgtttc	tgacatgctt	catttttgcc	tctctattaa	gtttatctgt	10620
acacacgcct	ggtctcccca	cttagggcag	gtacatgggt	gtcctcgtcc	gcaccttcc	10680

tggggaactc	acogatgtcc	cagagctgag	aagtggggag	ctgaaggagc	aatgtcaccc	10740
tccactggtg	gggtcgggga	gaagggcaga	gcatctatga	agtaagtcac	tactttattcc	10800
aagtttttcc	tccaaaacga	aagccatatt	tgggagaaat	aaaacagcta	tcaaccacct	10860
gtctatgata	ataaaaacag	acaactgtac	aagaaggttt	ctgtttcct	gggggcatgc	10920
cactccaact	gacccgactg	ttcccaagtg	ctgtggacat	tttgctgccc	ccagagacga	10980
agagtaattg	tggatgccat	tcctctggag	gctgtcatct	aaaagccaaa	ataaaactta	11040
ttctggcacc	tcaaaatgag	ttttggaagg	tgccaaatca	gacaagaagt	gatatgaaag	11100
aatgtgtgta	cacatgcaca	tgtattttatt	tgactatata	catgagggta	gtaaaatgca	11160
cgtggccatg	tgtaaatata	cacgtacagg	tagaaaagtgt	gtggctcttc	aacaaccagc	11220
cttcctgcaa	tcctctagaa	cattccaccag	tgaagctca	tcaacattta	tttaagtttc	11280
agcacaaaaag	aatttggaca	cacatgtata	cattacttt	taccaattgg	aaatcctcat	11340
tttaaaacct	tagcttacat	aaaatcctca	atctgtccag	aattggggaa	ttttataatc	11400
caagaacttc	aggaatctca	aaaataaatc	tgtgattttt	aattaaaaat	gcaagttatt	11460
catattcagt	tgagagaaaag	atgtcagctg	ctgagccact	ctgaagcatg	tagacactca	11520
gcctgctttt	ctaaatagta	caagatcata	cactcaagggt	cttaaaaaaa	gaaccactat	11580
aacgtgtaac	atggttttat	ttctatataa	attcaagcaa	ctttagaggg	aaacaaagaa	11640
ataagtaagt	aaacaaacat	tcacccctct	tacattgttc	taaattgata	gagacacaga	11700
cttagaacia	taggggcccc	ggtttgaaga	tggcaggaa	ccccccccca	acccccagtg	11760
tgaggagagt	cctaattgagc	tcccagagaa	actccaccta	cagctgctgg	agtaaggagt	11820
gtgtaaaaaac	tgtaggtggc	tctcagccac	gtggtcagaa	tcacgatgta	cacaccatct	11880
ggggtgtaca	caccaactgg	ggagcaccct	ttcctcccct	cacagcctct	cctcagagaa	11940
caacccaggc	agcattgctt	cctagtgcc	cacctcagtc	ctatgtaaca	cactagcctt	12000
cctggccaca	ccccccacag	gcttccactt	cagctgatta	taaattgttc	gccatgaagc	12060
gcacttttag	tttccctggt	ccgggagaga	agatatttcc	ttagatagag	tcctaaaatt	12120
gaccagccag	ggataagaga	agctacgat	aattttataa	ctttggttac	actcacctag	12180
tttgctttcc	agaaagatta	gaacaacaaa	tatcttcgta	ccagttatat	cagagacctg	12240
aaaatagtgt	gatttttttg	ggtcctttat	ttttatatgt	acttttaaaa	atacaaagaa	12300
catataaata	taaaataatt	tcattttaacc	aaaatatcaa	actgagagca	agctaatac	12360
agtggctctt	gccttattct	gaattattttg	cataataaat	gtttccagtg	gtattaatgt	12420
taatttttag	aggactgttt	ggattgtttt	attttaatat	cagacacaca	gactagtctc	12480
tgagcttacc	cactctggac	agcaagtatg	gaaagtcatg	aaagtgaata	aggagtgtct	12540
ctcagaagtt	aggcagcaaa	adgcagccc	ttcgccaaac	agcagcaagt	tctagggaag	12600
cagaaaggca	aatggtgcta	acagcagcca	tctctgagcc	agcccacaat	tcctcaccca	12660
ctgaagttat	tagctaaaaa	tgcagggtct	cggtcataat	ttatgtgtgt	ttattccaag	12720
ccttcaagtc	tcataatccc	tttgctgtct	ggtggcatat	ggactgtgag	tccagggc	12780
atagccagga	caaggtgtct	agactgccc	atggcgctg	gtaacccggc	ccttcccag	12840
tcaagaatac	tccgggcaga	agctgtctcc	ccggacatct	cagagatcct	caccccgcca	12900
cacagacaga	ctagctctga	ggctcttctc	ggatgtccta	aatggcctct	cgggactcac	12960
aggggctcac	ccacatggtc	acccgactga	agagcgcttg	aatggtagcc	atggggtttt	13020
ccaagctatc	ttgggactga	aacaacacct	cctggctgac	agtcagtcca	gtgagacgga	13080
gagcccagta	ctcctcgtcc	tcctcatgct	ctgagcactt	gggactggcc	tgcacatttg	13140
ggctcctggg	actccatgac	agattactat	cccactccgg	acccagtc	cctggcaaac	13200
acaaacaaa	ttgtgaagg	aggtcctct	caaggtactg	ccatccacca	cctcaattaa	13260
cttctcaaga	aaataatcac	tgtatttgct	ctgctgagca	cctcctagga	gccaggggccc	13320
aaggcacttt	acaagcatta	cattcagttc	tcccagcaac	ttcacatagc	aggtaacagc	13380
atctgtttca	cagatgagga	aaggaaatta	ggcattaagg	gatttactca	aaactcactg	13440
agagcacagt	gacagagctg	gagtcaaac	agagatcacc	tgacttcaaa	gctctcttcc	13500
acacccctgtg	tgcaatacgc	ctccacactt	tgattctgaa	ataaagaata	gcatctagga	13560
aactgacct	accacgaaga	aactgctttc	ctctccaata	agacgaata	gactctggt	13620
gttttaggat	ctatggaggc	ataggcacaa	aacctcaatt	tatttggagt	aatcatattg	13680
ctctaaatta	ctcgaaaata	actcatattt	tgggtctgag	aataatatca	ccaaaattat	13740
ttcatttaag	atgtagatcg	aatggcccc	tgcagttagc	agatatgata	aagtaaacgg	13800
acttctctcc	tctaccagga	gcacaccccg	agaagacgg	ggaagagtta	tgaccaggta	13860
tcctgatatg	tccaccttcc	tgccagtgtt	tacaaaaacc	aaattaaaaa	aaatttctact	13920
tgcttagtaa	aaattttcat	caatatttta	gcttttggtg	aatgttttagt	atctctgata	13980
cctgataccg	ttttcattag	aaactgcctg	aggagaaga	actgattgtt	tttcctataa	14040
taaaatggtg	atggcttttc	taatgggggag	gtaaccggat	acaaatagag	agaagcacag	14100

cttagagtgg	aaaaaagctt	aaccattatg	gcattttttt	tagtgcagct	tcaatgtata	14160
gtaattttat	gtttgttaat	tactgctcac	cttgctagag	aaacaatttc	aaaagagagt	14220
agttaaatct	gcttgccaat	taaggcctca	agagaaaatt	atttttatct	taagatgac	14280
taataaagtt	tagataaaat	tagaattggc	taggggaaat	ctgatgagga	ggatgtgcat	14340
ggtctcacac	tatctcccca	ctcactgctc	attagtgtca	aagaaaaaaa	tagtaactat	14400
acagtggaga	aataggacaa	gtccttgatc	agtaaatcaa	aattaatatc	actaaacatc	14460
acacacctcc	agatgagata	ctcgagaagg	atgcatcacc	acttatgact	tatggagtat	14520
tccagcttta	tttggtcatg	aggaaacatc	agaaaaactc	caaaagatga	acgttctttt	14580
aaattggaac	tatatctctt	acaaatgtca	atgtcctgga	agacaaagaa	tgactgtgga	14640
aatgttccaa	attaacggag	gctatggaga	tgtgacaact	aagtgttaaca	tctggaggaa	14700
aagaaatggt	acaaagaata	ttgtcaactg	atgaaactag	aacactaacg	atagattaaa	14760
gtattttttc	aatgtaagat	ttacagaggt	tgataactgt	attgattatg	taaaagcata	14820
tccttatttt	taggaaaaat	atactgaca	tttaggagta	aagtaccttg	atgattgcaa	14880
cgtattctca	aatagtcacc	cccttcacgc	ttatatattt	atacacacac	acaaacacac	14940
acacacacac	acacacacac	acacacagag	agagagaata	agcaaacaag	gcaaataata	15000
aacataggtg	actctggata	atgagagtat	acaggtgttc	ttgcactatt	cttacatta	15060
taactttctc	taagagtaaa	attttatcca	aatgagaatt	aaaaaattgt	caaaaaaaga	15120
aaacacacac	gtatgtactt	tctcagtacc	agactcaaga	aaacaaccaa	ctcaccccg	15180
atgaacttcc	tcctaattga	gtgtggtttt	agactgatac	gcacgggagg	cgagacagaa	15240
ggaaatgctg	gaaatgggac	aaagtggag	ggaaaaagaa	aaacggcaac	agttttatata	15300
aactcaaccc	cagtccagct	taagggacgt	gtgacttaag	gagcatgcaa	cttttctgtg	15360
tttcttgaga	gtggactgca	agaagaaaga	catgaagggt	tcataaccca	gggcaaaagc	15420
ctgcttagca	tctaaatcca	cagaatctcg	ccaacaatca	gaaataataa	gtctcagtc	15480
tctgctcaat	agaaattatg	aagatttgcc	atgacaaatc	ttgcaaaatg	aactgcagag	15540
tcaacctcat	gctgaatttt	cacctcattt	tcttatgctg	attcactgca	ggaatgtcct	15600
tactgacagt	ttaaaaactg	attttctgtt	tgcgccagat	agcttttaat	ttccctggct	15660
gacctgtcat	tacatacttg	taatacatga	ggtagagaaa	cagaagctga	gagagaacaa	15720
agaatcaaat	gccacatttg	ctaacagcaa	tgacagaaat	tctagcaatg	ctgaggagct	15780
tgtcaatctt	tcaagaatgg	atcctgacta	gaacttggtt	tttctacatt	ctttctaaag	15840
ccaagtggcc	tgagagtgc	ctaaggaaca	cttccaggtc	gagtcbaaaa	aaacaaaaac	15900
aaaatacttt	tccttagaca	ggagtcctct	caccttcaaa	ggaagtctct	aagattttcc	15960
aaagcagagc	ctatttcaga	accaaaagta	gatcctgctc	tcaaaaaacaa	atatacttta	16020
aagacttatt	ttaatcaaaa	caggaaaata	caagggtcaa	actatgttgg	ttttccctgg	16080
gtgttctgat	tttagcttac	tcttcccttc	acagatcttt	gtaaaaaatg	acactgttca	16140
cctggaaaac	agggctttga	gtagatgtcc	tttgttcttt	aaaacattat	aatctattgt	16200
ctccattttg	tgtgagtagg	agatatgttg	aaaatcaata	aaatgttaca	tcttacattg	16260
catcaaattt	taataaagca	ttgagggtag	ctatcaaaaa	ggccattatg	aaaaaggcca	16320
gcattatctt	atcagccttg	atcattagaa	aacagaaaaa	acaatcctaa	ttccagtagc	16380
accagaaaat	aggagagccc	tatgaataac	ctcaccaata	aaaattttta	agaaacagat	16440
ggagaaagag	aaacatgttt	tgggctgtgg	agaattaaga	ttatctgaaa	aattaagaca	16500
ccctttatgt	caaaataact	atagtcccaa	tactccata	taagacattt	tttttaattg	16560
atagtaaagt	cttgattcta	tagttcactc	cagctctacc	acttacacaa	ttagtgtgtc	16620
cctgggcaag	taactttcca	ttctatgcct	cagtttcctc	atctgtaaaa	taggaataga	16680
gtgatagtgt	tctgaggatt	aagtgaattc	atgctgggca	cgtagttcgc	actcaataat	16740
agtttactat	tacaagtgcc	accattacta	cagtttctga	acaaggccat	tttttgaaga	16800
agaaaaataa	aaacgattac	catggtaatt	aaaatactat	ggtactgatg	caaggatcaa	16860
acagatcaat	ggaagagaac	agataactct	gaaacactat	acatacaagc	acacatagtt	16920
ttaatataat	taattaagca	taaaaaacta	attagaaatg	ggtattttta	caaacagttt	16980
tagtaaactg	gctaaatatc	tggaagaaaa	tcagctgaga	atctcatagc	atattacact	17040
caacataatc	caaatgaatt	gaaaacataa	atgttttaaaa	aaagcatgca	gaagaagaaa	17100
tatataggta	aaattttata	taaatttgga	atagggacag	acttttctct	accttgaagg	17160
gaaaataatc	accaaagtga	agtgttaaac	tgagaaaaac	agaatcaata	atataaaaag	17220
gctatctgct	ttataaaaaca	tctattttaag	cccaaagaaa	ataaatggga	agagcaatgg	17280
atgaacaact	aaaattaagg	aaaacttaat	gaacaactga	aaaacattta	acccatttag	17340
taactgaaaa	atgcaaatca	aaacaaagca	gtgtgttgaa	aataagtaga	gtgctcaggg	17400
ctggcacagc	gcagcaagac	aagcacactc	acaccctggc	agtgggacac	aaagtcaacg	17460
cagcaccatc	aagaccttga	aggttcacac	cccaccatct	cagacttcac	cttttagacc	17520

ctccccaggg	aaacaatcat	ggctagagaa	aaagattcat	gtataaaggg	tgctttgttg	17580
caaggttact	tacaatggtg	atacggaacc	tgaatgctca	acactgaggg	agtaatagtt	17640
aaatcaaaga	tgaaaactca	taccatgaaa	taggatgaaa	ccactaaaat	ctcccagctt	17700
tgaagattag	catgtttgtg	gaccattccc	atgtccctca	atcatattaa	gggaacaca	17760
ccaagcctat	gaaactatac	ataacatttt	ccctgatcct	gaatgactga	ataaataaac	17820
caggtataca	aaaggggag	aaacaaaata	agctaacatt	ggctaactta	gtgataagat	17880
tatgagttat	tcacattgtg	ttttttat	ttattttaca	ttttttataa	tttttttaac	17940
catgaatata	tagaacttga	atactcagga	aaataacaaa	tggtgacaaa	taaggaaaga	18000
gttaactcat	ggaatgaaaa	aaattaacag	tcaaccctac	tagaggcitt	ccaaaaacct	18060
tcctgagtct	agaacactta	ccacacacac	tctatttttc	tttatttctc	acgagcgacc	18120
acgatgctca	ggctccattc	ctgcctaaag	aaacgtaacc	aggctaggcac	agtggttca	18180
cgcctgtaat	cccagcactt	tgggaggcca	aggtgggtgg	atcacgaggt	caggagtctg	18240
agaccagcct	gaccatgatg	gtgaaacccc	gtctctacta	aaaatacaaa	aattagccag	18300
gtgcggtggc	aggcacctgt	aatcccagct	actcgggagg	ctgaggcaca	agaatcgctt	18360
gaaccctgga	ggtggaagtt	gcagtgaagt	gagatggcgc	cactgcactc	tagcctggct	18420
gacagagcaa	gactctgtct	caaaaaaaa	aaaggaataa	aaaaagaaac	aagaacata	18480
accagagcag	ttttgcaagg	tgaacctggg	ttgtgcctgg	ccctcctgag	cctcctctgg	18540
agctgctctt	cagctcccgg	ccactttttt	tttttttttt	tttttttttg	agatggagtc	18600
ttgctctgtc	acccaggctg	gaatgcaatg	gtgccatctt	agctcactgc	cacctctgct	18660
tcctgggttc	aagcgattct	cctgcttcag	cctcctgagt	acctgggaca	cgggcatgtg	18720
ccaccatacc	cagctgattt	ttgtttttgt	tttttagtaga	tactgggttt	caccatattg	18780
gccagcctgg	tctcaaactc	ctggcctgaa	gttatccact	cacctcagac	tcccaaagag	18840
ctggggttac	agacatgagc	cgctgcaacc	agtcacagcc	acatccttac	ttccccacct	18900
gcaaataggc	atagccctgc	ttggccta	tagaagaagta	cttttttctt	atttttttgt	18960
agtattaaaa	cacacacaca	cacatacata	caaccctca	actatctttc	actcatacat	19020
attgaaattt	cttacacaca	atggatattt	cttattatcg	gaatttgtgt	tttcatagat	19080
cccagcacta	tgaactaata	ctgtgtccct	ttataaaggg	tttctaacac	ttccagttta	19140
cttggttggt	ttcattgcca	gtatcaaaaa	tggtgtgttt	atactcccca	gttttgttgc	19200
ctaattattt	taattaatat	tcttttctatt	tttttcttta	gtataaagac	aaaacactag	19260
ttcctttctc	tttcttcatt	cccataaaat	atgtatgatg	ggagaaaaat	ttctgctcca	19320
gaaaagaaat	ccatgaccct	gactgggtga	gaatcctata	ttagtccatt	ttcacactgc	19380
tataactacc	tgagactgga	taattttataa	acaaagagg	tgtaattgac	tcacagttcc	19440
gcattgttgg	ggaggcctca	ggaaacttac	aatcatggtg	gaaggcagaa	gggaagcaag	19500
gatattcttc	acgtggcggc	gggagagaga	gagtgcaggg	gaaactgcca	cttttgaaac	19560
cactggatct	catgagaact	ccctcactat	cgggagaaca	gcatggggga	aaccaccccc	19620
atgatccaat	cacctccctt	caggtctctc	cctccacaca	tggggattac	aattcaagat	19680
gagatttggg	tggggacaca	gagccaaatc	atatcaaatc	ccctgccagg	aacttttctt	19740
acatggaatg	tacatgtctg	catttggcaa	tcagaataca	aaatgttggg	agaagtctgt	19800
atttctttat	tttttaatta	aaaaacagat	ttatgctctg	atctggtcag	catatgatct	19860
cttatataat	cttgcactca	gacactaaac	acctgtgcaa	actctcctcc	caggatttgg	19920
tctactctgt	ctgagcaggg	taagtaaaaa	attctttgta	ttgaccaggt	cagttcctaa	19980
aaccagaatc	ttcacttgga	atttcattttg	aagtattttca	cttgactttt	gaacatttta	20040
gtagagagga	atgtatgtga	cgggaaaaca	gctaaaaaga	aaagtacat	gttctctgct	20100
cccgcaaaac	acagtggcca	cgagagtccc	cagcacagga	actgagggtg	agttccaaga	20160
ggaagggaatt	ggggaagaag	gaggtgggag	gaggaaacac	agcgtaggaa	gaaaaggaga	20220
acttggtggg	ttccaagaag	cacaaccccc	tgctgaaaca	gaccataaga	taccaccagc	20280
cctctgagat	tagaggatat	cctcagaggc	tatagctaaa	atcttcagca	gcctttgggc	20340
aaccaccact	acatacttca	gctgagctct	gaatgtcaag	gagcagagag	gcaaagatct	20400
atgaagacag	cgtgctcacc	aaaaaaaaatg	gcaagtgcc	agggcctcag	ccggcatat	20460
gtgggaagtc	tgattgaacc	agtgtggctg	agaatggca	agatgagggtc	agagggttagt	20520
aaggccagat	atcacagggc	tacagggcct	tctaggccac	tgggaaggact	ttggacttta	20580
ttcttggtgc	catagaaaac	tctggatagt	ttatagttgg	tttttgagac	aggtctgtat	20640
catttaattt	tcacaaatca	aagtagtaag	tctgtaaatg	attaaatgac	actcacattc	20700
cttaacatgg	tccacagagc	cctgcatctc	atggccccc	acctcaccaa	acttaccttc	20760
ttcacctgct	cctgctccag	ggctctgagg	tctgaatgta	tctgttctctg	ccatttagaa	20820
tattctcccc	agacctcccc	accctgacac	atacaaatat	cccaatata	actctctctc	20880
cccaatgccc	tctcacctgt	tcctttctgt	ttaaatgtca	tcttcccaga	actctttcct	20940

ggtccttgg	tctaaagtca	gttcttctg	tccctccctt	tcatagcacc	ctgttctttt	21000
ctttcacagc	attaatgacc	atgacaagta	taaatttact	tagtgtctac	ctttccact	21060
agactaacag	ttttgaaaga	gtagaaacat	gtctgttttg	ttcatgactg	tatatgcagt	21120
acttgataaa	tatctgataa	atagatacat	aaaactacat	aatcaataaa	acaaaagctg	21180
gttctttgaa	aagatcatct	aaattgacaa	acttttagac	tgaccaagga	aaaaagagaa	21240
gatttaaata	actaaaataa	agaaagaagt	gacaatatca	caatcttac	aaaaataaaaa	21300
gcattatggg	tgaatctatg	aacaactata	tgccaataac	ttagatactt	cagatgaaat	21360
ggacaaatta	ctaaaaggta	caaattacca	caactgattc	aacaaaaaaa	tacaaaatca	21420
acagacctat	aaggagagat	ttaattggta	atttaaaagc	ttctcaccaa	gaaaaaccta	21480
gcccacatgg	cttctctagt	gaattctatc	aattattcaa	agaaaaatta	atacgaatca	21540
ttcacaaact	cttccaaaaa	ttagaaaaga	aggaaacact	tcctaactct	attagaccag	21600
tattaacctg	ataccaaaac	taaacaacaa	tatccaaga	aaagaaagct	acagaccata	21660
tcttttgtga	ataaagatgc	agaaatcctc	aacaaaac	gcctgagtaa	actctataca	21720
aataagacac	agttaacatc	atacataatg	gtgaaagact	aaatactttc	tttctaagat	21780
taggaataag	ataaggatgt	ctactctcac	cacttttatt	caatgttgga	ctggagggtc	21840
tagccagggt	aatttagcaa	gcaaattgaa	taaaaggcat	tcaaagtaga	aagaaaagaag	21900
ccgtaagatg	tcaataaagt	ttttttcttt	tttaaaaaag	gtaatatataat	aataataatac	21960
gttaactgct	tacagtactt	ggtaggcatt	caataacaac	tggctattat	gttcatataa	22020
tgacattttc	tcttctctaa	tgtttggtgt	gctgtgaaac	caggttaaga	catgactgtg	22080
agaagacaga	ggaaagactt	atctttggga	agtgtgtac	ctgggcatca	agagcctttc	22140
caaaataaaa	tatttatatg	tactgaattt	ataggaattt	atctgtagct	cagagtgata	22200
gcaaattatg	ttgtttatcc	ttattaagac	tcaatctttt	caattgtaaa	atgcaaaact	22260
ggggccttta	agagcaaaa	gcattctgtt	tccatggcta	gcaattccca	caatacacta	22320
agagcagatg	ggttcaaaaa	gcagaaatca	cgtactcaca	ttcctcaaga	cgggtagtgc	22380
caactgctca	aaagaagtca	ggtcgaccac	atactgccca	actcggcatt	cacgttttcc	22440
agggtggaggc	tctaacctga	aggaaaagac	attatgttct	ttgttgaaaa	actcctgtat	22500
tgatttctgg	tttttagctg	ctccatgag	cctctggcat	tccacatatg	ctaaatcatc	22560
cttaaaaatg	accaacacaa	aatgcggtgg	tctgtaaaagc	tgatcagggt	ttctctgctt	22620
tgaacagagc	taccctgttc	aaagtgtcca	cacctccaac	aatgggcctt	gcagttatgg	22680
cagggtctat	tcttaaggtc	caagcagcta	ctgcataca	agtctttgaa	aagtgcac	22740
agaaacagga	ctaagaatta	taaagtgaga	ggagtttatg	acttggtgaa	caagtttttaa	22800
gtaaaatatc	actttcttat	acttttttca	tgtgatgggt	tcattctgtt	ttctttctct	22860
gagaaatccc	taaaggccta	agattcttga	ggatagatga	caacatttgg	ctcaaccctg	22920
tgcccaggga	gacactctca	acctaaggga	aaagcagatg	ggcatccaag	gacccaacag	22980
agtatctgct	tttggtgaat	ttagctcttg	ttgaaaagct	cccaaagcac	agatggaagg	23040
ggagcttaga	taatagaaca	ccacagaaat	gaaatatcag	taccaactc	tcgataaagg	23100
cccccggtga	ccggacaacg	tgacgacatc	gaatcctatt	cttctccctc	ctgtctgac	23160
ttcttcggtg	taaaatccat	caacaggcac	accagggat	tttaaaacct	cactggcttt	23220
atggatcaat	gttggtttttc	caactcctaa	aataaaaaaa	aaaaaaaaaa	aagaagaaaa	23280
gcccattagg	aaacattccc	ttactagagc	acacacagca	cttgtggact	ctgaggcagc	23340
aattatggtg	ggtagagaaa	tgggctgtaa	atggatttat	gaatatgaac	ttcaatttaa	23400
ttttgattgc	tccagggtgct	aaaaatgctt	aatttcaagt	agaaacaagc	ataataaaaa	23460
cacgaatgat	atcttgagg	ttatttttaa	attgtgaaac	attgttaatt	ttgtcacgta	23520
cacaatccca	gaatcaactg	agaggttcct	gatgatattc	tcccatgcca	tttgcacctt	23580
tgaaatgggt	ttacagttcc	catttttctg	cccaggaagt	aacactggtc	acacttgagt	23640
caggggctgg	gaatttaaga	tttcagcttt	caagagatta	caaacggacc	tacacttaac	23700
agtgggaaaa	tcactttgtt	cctcctttga	cttacattgt	tgtaactcct	gaaaatgtgt	23760
ctcttaaata	tcattagcat	ccctgttaat	ggtcactttc	aaactttttc	ataacagcaa	23820
gcctatcagg	ttagcaactc	cttccaacat	catcttctcc	agggctctta	agcatttctt	23880
cacctttatc	ccccacacct	tccccagttt	gaacctatgt	acctctgccc	cctcagcctc	23940
cccaccttga	tcttccctgt	ccatccagcc	tggtcagctga	actactctga	tgaactcact	24000
ggtttgtaag	caccaacagg	tgctacctaa	tatagtaata	ctcatcactg	acgtcatgga	24060
gccagacact	gttctagcac	actttggaag	cattttcttg	gttaagtcct	cacaaccatc	24120
ctctgaggca	attaccatcc	ttatgcata	tttacagatg	gagaaactga	ggtacatgg	24180
ggttagggtat	tttaccctaa	gctatacccc	tcataagggtc	catacctttc	aacaggggac	24240
tttacctgtc	accatgactt	tttaaaatat	gagccttggt	cccaatatgg	atttaagtaa	24300
gtggcatcat	gactacccaa	caatggaaa	agagagaaaa	ctcctagcat	gtctgcaagt	24360

gagctatttt	gagatactac	agagttgcaa	atcatgctat	ttctaagact	accactctt	24420
ttaagcctcc	ttgacataaa	atatgatcca	ttattcttat	ttaatgtatc	tatcttcaca	24480
cttcacatta	aaataatggc	acctggcttt	ctggaacatg	aacagcaaca	caacaggatt	24540
ctggctacag	taagccacag	tgagcatgca	gctggtagaa	ctgtgtagaa	cataaaatga	24600
tgacattcta	atccagccct	ggccatcagt	aacaactgct	ttaggaaagt	cactaaagaa	24660
tctgtttcat	gcaagtaatg	gcattgccga	atgtgtgaagc	tgctacttct	tttctgaagg	24720
gcaatttcaa	tgcgcctgcc	acagcaccct	gtagttcatg	actaggaatt	catcctcagg	24780
aaacatcaac	aatacaaatg	tgtgaaagag	gacattcact	gcaacattct	ttataatagc	24840
aaaacactga	aaacaacctc	aatgttgatt	gtaagggaat	gttaactcat	ggcaccatgt	24900
atataaatga	acataaatac	acagaaatac	catgcaacca	ttaaaaaata	tactgtctat	24960
atgtatttat	tagcatggaa	aatagaccac	aatgtatgaa	aataatatat	ggaaaaagca	25020
ggttaatagc	agaaaccatt	ccattatgtt	ttttttaaag	aatggtcaag	tacgtgtcta	25080
cagaaaaaaa	aaatgtcaag	aagaatacag	aacaaagatt	tacaatgttg	atttctgatg	25140
ttcaaatccc	ctgtgattgt	cactttcttc	cttaaacttt	tcttgttttt	tttaattctt	25200
atactgaatg	ggtcttactc	ttatctaac	aaaaattgcc	gtttatatatt	tgaaaaagat	25260
aaaattggagc	aacggtaact	attcctgttc	acaaaggga	tactgtgggg	actgtatgtt	25320
gtgtagaaca	tagtagagca	ataaatagga	agcatttggg	caaagtcctt	tttggcttct	25380
tcagctctag	gaatcttctt	tcagttaatt	ttttcttcat	tagttaagct	gctacccaa	25440
tgctgtctgg	ataagaaatg	acctctgctt	caggagacct	cgagatgata	gctgtatacc	25500
aggcacaaac	agatcagaaa	gctctggaat	tattttgggt	ctgggtctcc	cctaagcaga	25560
tcctcagata	aagattcaag	tcaggttagt	ttaacctggg	cagtgcacaac	atgatggact	25620
ggcaggggaag	aaattcagaa	agggaaggga	aggacaccag	catgaggtgc	actgtcaagc	25680
aagttccact	gggggcagct	ggagcttcaa	ccccctgggg	aatcctaagg	gacaagtcag	25740
ggcaagtggc	tcagttatcc	tgtctgagga	gtgagaaagt	agggaattta	tcaactaact	25800
ttcaccaatc	acaggttgaa	ggctaattccc	agggcacagg	aattccctggct	cttctgtggc	25860
ctgctctgtt	tcagggccaa	gtgggctcca	gggaccagag	aaagccctcc	aagatgagtc	25920
atgggtacag	acagttggaa	atcggaaaaa	atgctaagtg	ccaggggcac	taagaggata	25980
tgcaacaaaa	agtgcacctt	ttgagaggag	actttacctg	atggtctgaa	catattgaga	26040
aaacagaaaag	aaactaggca	aataaaaaaca	cctgacaata	actcctaattg	gggaaaaaag	26100
ttatgtgtaa	aaggaaaaaa	aaaaaattag	agggcattgt	ggtgcatgcc	tgtagtacta	26160
gctatagggg	aatctgaggt	gggaagatgg	tttgagcctg	gaaggtggag	gttgcatgta	26220
gccaagattg	tgccactgca	ctccaacctg	ggcaacagag	agagccctg	tctcaataag	26280
aagagggaaa	aaaaagatgg	gtaaggtggc	tcacacttat	aatcccagta	ttttgggagg	26340
cccagatggg	aggatcactt	gaggctagga	gttgagatc	agcctgggca	acataacaag	26400
agacaggtct	ctacaaaaaa	aaaaaaatac	ccgggtgtgg	tgcatgctgc	ttgtagatcc	26460
agctattcag	gaggttgaag	tgggagggat	acttaagccc	aggagtttga	gaatgcagtg	26520
agctataact	gtttcactgc	actccagcct	gggtgacaaa	gcaagatcct	gtctctaaaa	26580
taaataaata	aatggaaaa	aaatcataga	ttactatgtg	gctctgttgt	gattgtcttt	26640
acatggccat	aatactgtaa	acattgacta	atgaaaath	cgctgtaact	acattaagaa	26700
gagaaggaga	aaagacaaa	gtgcgtgggt	ttgaggacag	gtttaagaga	gctacactgt	26760
agaattattt	gagtctttca	actacgtgta	ggtaagactt	tgataaagca	gaaacaagaa	26820
ccaccatcaa	tacaatcacg	gtaacaggac	acctccatta	ataaaacaca	cagttgtctt	26880
ggggtcagcc	tgctgagtat	caaactgcat	tccaagtttc	aaataaagga	ttgacaaacc	26940
aactttcaga	aaacagttct	ttgcaatact	taggagtgc	tttagatagc	aggcatttct	27000
caaaccaccc	tcctctctct	cacccctgct	tcccaactc	cccatccaa	tgctgacaa	27060
aatcccaaag	tctgcaatat	tagctgtagc	cttgctact	tacaactaaa	cataatcatt	27120
aaaataaagt	gaaagagaat	tctagatcca	gggttacagc	ctttgatatc	tgaaccaca	27180
ctaaacttca	aaattagatt	tgctttgcaa	aggagctgaa	gaaatcactt	tctccactct	27240
tagcccatct	atcttttttt	agcctatctg	atgcagccta	cctgtccttt	ttagtaatgc	27300
ttgatacatg	ggtagcgcct	tggtttaaaa	gcacctctc	ctacacctct	catctgacct	27360
caacgctatc	ctgcttctca	gatgagaact	ccacaggcca	cagggttgag	ggatctgaca	27420
gacatcagga	ggggacagcg	acaggaaaca	gcaagagtgt	ctgagaaggg	ctcctgtagg	27480
taccaaaagct	tctccacctc	tggcctcagc	tgtggaggga	attcgtgggg	atggagatgg	27540
ggatgggggt	ggggggatga	acttagatgg	gaaagaaagg	ttacaacttc	agtttcgctg	27600
tcctccaact	aaaatttacc	attttttttt	tgcacgatca	atgtagcaaa	gaccacagt	27660
aaggaaatac	ctgtgactat	caacagaaat	tagacatctc	cacttcacat	cgcggttgc	27720
gcagatctct	tgaaataacca	tttgtgcaga	ccacaacgtc	aacactacag	taggagttac	27780

cgctgccgct	ggcccctgcg	gtttctgccc	ttcatcaaga	agccagtcta	ggaccccctc	27840
acaagtgtgt	tctaatacctt	taggcctgt	gtcttttaaa	tcacgttttc	cggaaggag	27900
tacaaactct	tcagactacc	aagcccgcca	tttaaattgg	gaacttcaga	ggccggagcc	27960
ctggagccgg	agaccctccc	cgacagcaca	aggtegcccg	cagcccgcg	gccccaccc	28020
cctcgacctc	ttggaggtgg	ggatccctc	agggttacct	gggggccccg	ttaggaacac	28080
gtgccggggc	atactggtgg	gcgggggtag	gggttgcggt	caggggagca	gtcagggttg	28140
gggtcgcaat	tcaggtcagg	tccggaccag	ggtcgcgact	caggaccgc	ccaccgcgtg	28200
tcgcaggccc	cgccc					28215

<210> 1058
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 1058						
tcacgaggtc	aggagatcga	gaccatcctg	gctaacacgg	tgaacccccg	tctctactaa	60
aaatacaaaa	aattagccgg	gcgaggtggc	gggcgcctgt	agtcccagct	actcgggagg	120
ctgaggcagg	agaatggcgt	gaacccagg	gggcggagcc	tgacgtgagc	cgagattgag	180
ccactgcact	ccagcctggg	cgacagcgag	actccgtctc	aaaaaaaaaa	aaaaaaaaag	240
gc						242

<210> 1059
 <211> 5754
 <212> DNA
 <213> Homo sapiens

<400> 1059						
aagaccatcc	tggctaacac	ggtgaaaccc	tgtctctact	aaaaatacaa	aaaattagct	60
gggtgtgtgt	gcggggcgct	gtagtcccag	ctactctgga	ggctgaggca	ggagaatcgc	120
ttgaacccag	gaggcggagg	ttgcagttag	ccgagatcgc	gccactacac	tcagcctggg	180
cgacagagt	agactccgtc	tcaaaaaaaaa	aaaaaaaaatt	acttagacat	ggtggcacat	240
tcctttaatc	ccagctactt	gggaggctga	ggcaggagaa	tcgcttgaa	ccaggaggtg	300
gaggttacag	tgagccgaga	tcgcaccact	gtgctccaca	ctccagcctg	ggcaacagag	360
tgaactctg	tctcaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	ggaataaagg	ggatgggttt	420
gacatctgac	aaaatgctgc	tgctgccatc	cgcttctgca	aaacctcaag	aatgaaatgt	480
ccttcccatg	gccacacga	ggccctgcac	gagctgcttc	atcccccttc	aaacctcctc	540
tcctctctct	tcctctcctc	actctgctca	gacacacggg	cctcctcact	gttctctcaa	600
cacggccact	gtggtctgcc	ccagggcctt	tgcacaggcc	atgcctctgc	ctggaacacc	660
tgccccaga	ttctctatg	gctgacttct	cacacttggg	tctagtgc	tgcatcacct	720
cctcaggagg	ggccccctgc	ccacccccag	tgaatctagc	cccattcagg	acagtcactt	780
ttattatgca	ctgattgtat	actaagccca	gagacttcaa	ctgtggtttc	tttttcatcc	840
tcccaataaa	tccatccatc	catccgttca	ctcagacatg	aaattctgga	ccctccaatt	900
caggatctgg	gccacccagt	gcctagcttt	tttttttttt	tttttttttt	tttgccgaca	960
gagtttcatt	ctgtcaccca	ggctggagtg	cagtggtgca	atctcagctc	actgcaacct	1020
ccgcctcccg	ggttcaagcg	attctcctgc	ctcagcctcc	cgagttagctg	ggattacagg	1080
tgtgccacca	cgcccggcta	atttttgtat	ttgtagtga	gacgggggtt	caccatattg	1140
gccagactgg	tcttgaacac	ctgacctcag	gtgatctgcc	ctcctcagcc	tcccaaagtg	1200
ctgggattac	tacaggcatg	agccactgca	cccgtcagcc	tacttcttgt	gttcattcat	1260
tcattcatte	attcattcat	cattcagcaa	atgtctatga	gcgcctactc	tgagccactg	1320
aaccagctgg	gctggccctg	ggggagaaatc	gacttcccct	gcaaattcac	tctcatcaga	1380
tccccagggt	ggtctaggat	tgttttagatg	ccctcacgtt	ggggaactca	ttccttacta	1440
agaataacca	ccaccaatac	caaacagctc	caagtaccac	caatagtgtg	gagttctcag	1500
ggtgactaca	gcattctgctc	ccaagcccag	ccagcccat	atgggtgtgtg	ctgtgtcaaa	1560
gaacctgggt	tcaaatccca	tgtccttttc	taacccttgg	acaagcccct	acccattttg	1620
tgctcgggtt	tccctagctg	taaaatggag	atagtagtgc	ctctcttgtg	ggctcagcac	1680
caggcctgtt	acacagctgg	tgtttaataa	atgtgtcctg	ttacttaagg	tctgatatgt	1740
gtagctcctg	tcgtcgccgt	ccatgggggt	gagtggggtg	gggaaggggt	ggtttgagtt	1800

tctgcacatc	aggacacgag	gcgcggtcca	tgcaaatgaa	atgcaaatcc	catgcaataa	1860
aatctctggg	tggtgcaagg	ctggaggtac	aaggtgcacg	catttggggg	gcgcctggga	1920
accccatgaa	tcgagccag	gcccggagt	gctgaccgc	atccagcccg	gctttcagtg	1980
ctcgggtgtaa	atgtttacac	ctggccggcc	gccaggctcc	acgccgccc	acactaggca	2040
gccaggagg	ggaatgtaaa	ctcgggctgg	gggcccggg	acgctcggga	ggagcccaga	2100
cggagtcgag	tgtggtgggt	gtgtacacgt	gagttattaa	acaccgactg	tatgcagga	2160
ggaggatgcc	accaggcact	cacagcacca	agtaactggt	gcccgaatgg	gtaaagctca	2220
gggcattcct	gggggcccac	tagcgcccct	gcaccagcca	gaggttgaag	tgaatagggt	2280
aggcagccat	ggaaggctcc	ctggaggagg	cacctccaa	ggtgagattg	caaggggagt	2340
gagagctagg	tacatgtgac	tcacagcct	gtaatcgcca	gctctttggg	aggccaaagt	2400
ggaaggatcc	ttgagccag	gagtttgaga	ccagcctggg	cacgttgtga	gattccccctc	2460
tctattaaca	aaaacaaaaa	caaaaaaat	taaaaattag	ccaggcatgg	tggctcatgc	2520
ctgtagtcag	tcctagctac	ttgggaggct	gaggtgggag	gatcgcttga	gctaggagg	2580
tggaggctgc	agttagctgt	gatcacacca	ctgcactcca	gcctgggtga	cagagcaaga	2640
cctgtctca	aaaaaaaaaga	aagagagaga	gaaagaaaga	aaggaaagaa	aggaagagaa	2700
aagaaagaga	gaagaaaaag	gaaagaaaga	gagagagaga	gaggaggctg	ggtgcggtgg	2760
ctgcttatcc	atctcgatgc	actttgggag	gccaaagggtg	gcggatcact	tgagtccagg	2820
agcttgagac	cagcatagct	aacagggaga	aacctgtct	ctattaaata	tacaaaaatt	2880
agccagtcac	gctggcaggt	gcctgtaatc	ccagctactc	agggggctga	ggccggagaa	2940
tcgcttgaac	ccgggaggca	gaggttgag	tgagctgaga	ttgcgcact	gcactccagc	3000
ctgagggaca	agagttagac	tccatctcca	aaagaaaaaa	agaaaaagag	aaagaaagg	3060
gagtgggagt	ggggaggagg	ggaagaagt	ttctccatgc	aaggacctat	ctgtgcaaaa	3120
gccagagct	gggactccat	gtccagggca	gctctggtcc	attgctgccc	acttctgggc	3180
ctgcttatcc	atctgaggtg	gaaacaggct	cagagagggg	cagagtcaat	ggaggacacc	3240
agcatgtagg	gaacagtgtc	agccccagat	tcctgcctcc	agactgtcct	aaacaccacc	3300
ctccccgcgc	ctttgtccca	cactgccacc	tgccgggaat	gacctctcct	cctttcactc	3360
ttccccctgg	ctcctcagct	gcagccgctc	cgccctcctt	gtgttcctg	ggatacgcca	3420
cactcagctc	ggcctcgggg	cctttgcact	ggctgtgtcc	cctgcctgtg	atgccattct	3480
cctctgcctg	gccaaactcct	acgtttatc	aagtctggac	cttgtcatcg	gctcctcagg	3540
aaggcactcc	gggaccccc	gatgggggag	gttccctgtg	actcctggca	cggaggccaa	3600
ccccttcctt	gttcaaggtt	tccttgagg	accattccca	tgtgattatc	gaccattcgg	3660
caggcggttca	aagtcaaagg	ccccacactg	agtcctggcc	cagcgccctg	tgcccggttg	3720
ctgctggagg	gacagacggg	gcgtgcggct	gaccatcccc	tgcccgagag	ctgaggatgc	3780
agcgctggaa	ggcggcggcc	ttggcctcag	tgctctgag	ctccgtgctg	tccatctgga	3840
tgtgtcgaga	gggcctgctt	ctcagccacc	gcctcggacc	tgcgctggtc	cccctgcacc	3900
gcctgcctcg	aaccttgag	gcccggattg	cccgcctggc	ccagtgtaa	ctcctcctct	3960
gtgtggggtc	agatacccc	aacgtaagg	gtagaatttc	aggcagtga	gtgggagggtg	4020
ggggggggtg	cataggtttt	ttaaagatag	ggcagccag	cccccttgca	gggagccagg	4080
gacagacac	ctaaaagatt	attcagggga	aggcatgggtg	gcgcctgcct	ataatcccag	4140
cactttggga	ggctgagaca	ggaggatctc	ttgagcccag	gagttcatga	ccagccagg	4200
caatgtagcg	agaccgccat	ctctacaaaa	aacttcagaa	attagccagg	tgtagtggcg	4260
cacgcctgta	gttccagcta	cttgggaggc	tgaggtggga	ggatcacttg	agcccaagag	4320
ttcaaggctg	cattgagcta	tgattgcacc	actatactcc	agcctgagca	acagagcaag	4380
attctgtctc	aaaacattat	aataataaat	acattttcta	aaaaaagatg	gggtggagg	4440
aggttgcaaa	ttcccccaat	ggcctgggtg	agctaggggtg	acttctggga	actggggctc	4500
ttcggtcag	ctgtcacaa	gaattaggct	ctgccctgag	gtcccgtggg	ggccagatgg	4560
agattagacc	tgggcattcg	cctgggttgg	ccccgcggcg	cagcaggggg	ggcggtggga	4620
ggagagagag	gctggatctg	aggtccagt	gacctgcccc	aggggacagg	gaccaagggg	4680
aggcgggaga	tggagcagga	gctaaaaacc	ggaagaaagg	cccagagatt	cgaaggggtg	4740
aggaggggtg	gagagaggag	agacggggct	gggggacacg	acacgggcaa	aagtgtgct	4800
atagggacac	agaaatgccc	accctgaggg	caagaccctc	gccccactcc	ccaccatcc	4860
ctaattgctg	ccccaccgca	ggtgctgtgg	ggtgaggggtg	gtgctgtggc	cctgaccctc	4920
gtgcccacgc	acattgcatc	gcgtgcgcct	gcgcgggcat	ctgaggcgctg	gatgcggca	4980
gggtgcgtgt	gcagcgccct	tgggtgtggg	ccacgagtac	gcccattgtgc	gcgtctgcgc	5040
ccgcccctgc	cagcccacac	aatcctcttt	tcttgcctct	acaatgcaca	agggtggcct	5100
ccagcacgag	ctccacttct	gtcctccac	cacttcctc	tctgcaagcg	gcgtgaagtc	5160
cttcctagga	ctctgggaca	gagacccggg	cgggaccccc	aaaatccagt	gctccaggac	5220

ttgggggtgcg	ggggggcaaag	cacgaatgga	ggaatttcag	gcactgaggaggggtcagggc	5280
ccatgggacg	gtgcctgtct	gccctactgc	aaaaagcgag	tggccactga ctccccaaagt	5340
ccccatgttc	taggctcctg	gtggaatttc	aggctgggga	ccttgtgttc tagccccctgt	5400
gcaagcagcc	agcccccggt	gcagggaggg	agggacagac	atcctaaaag atgattcatt	5460
gttgccaggt	gcggtggctc	acgcctgtga	tcccagcact	ttgggaggcc gaggtgggag	5520
gatcacgagg	tcaggagatg	gagaccattc	tggctaacac	tgtgaaaccc tgtctctact	5580
aaaattacaa	aaaaattagc	cgggcgtggt	ggcgggagcc	tgtagtccca gctactcggg	5640
aggctgaggc	gggagaatgg	cgtgaacccg	ggaggcggag	cttgagtga gccgagatcg	5700
cgccactgca	ctccagcctg	ggcgacagag	cgagactccg	tctcaaaaaa aaaa	5754

<210> 1060
 <211> 294
 <212> DNA
 <213> Homo sapiens

gcgcggtggc	tcacgcctgt	aatcccagca	ctttgggagg	ctgaggcggg	cggatcacga	60
ggtcaggaga	togagaccat	cctggctaac	acgggtgaaac	cccatctcta	ctaaaaatac	120
aaaaaattag	ccgggcgagg	tggcgggtgc	ctgtagtccc	agctactcgg	gaggctgagg	180
caggagaatg	gcgtgaaccc	gggaagcgga	gcttgacgtg	agccgagatt	gcgccattgc	240
actccagcct	gggtgacagc	gagactccgt	ctcaaaaaaa	aaaaaaaag	aagt	294

<210> 1061
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (106)..(106)
 <223> n equals a,t,g, or c

tctactaaaa	atacaaaaaa	ttagccgggc	gtagtggcgg	gcgcctgtag	tcccagctac	60
ttgggagggt	gaggcaggag	aatggcgtga	acccgggagg	cggaactgca	gtgagccgag	120
atcccgccac	tgcactccag	cctgggcgac	agagcgagac	tccgtctcaa	aaaaaaaaaa	180
aaaaaaaaaa	gaaata					196

<210> 1062
 <211> 100
 <212> DNA
 <213> Homo sapiens

ctgaggcagg	agaatggcgt	gaacccgaga	ggcggagctt	gcagtgagcc	gagatcgcg	60
cactgcactc	cagcctgggc	gacagagcga	gactcccctt			100

<210> 1063
 <211> 2364
 <212> DNA
 <213> Homo sapiens

ctcactcctg	taatcccagc	actttgggag	gccgaggcgg	gcggatcacg	aggtcaggag	60
atcgagacca	tcttggttaa	cacgggtgaaa	ccccgtctct	actaaaaata	caaaaaaaaaa	120
attagccggg	cgtggttagc	ggcgccctgt	gtcccagcta	ctcgggaggc	tgaggcagga	180
gaatggcgtg	aacctgggag	gcggagcttg	cagtgagccg	agatcgcgcc	actgcactcc	240

agcctggg	acagagcg	actccgtctc	aaaaaaaa	aaaaaaaa	aaaagaataa	300
agtataag	aacatgagt	aatgcctgtc	atctttttt	ttttttcttc	aaaaacaggg	360
tctcacttt	tcaccaggc	tgcagtgcag	tggcgcaatc	atggctcact	gcaacctcta	420
gcacctggg	tcaagagctc	aagaggtcct	accaactcag	cctcccaagg	agctgggact	480
acaggtgcat	gccaccacac	cctaaggtaa	atttttgtgt	ttttatagag	acaggtttta	540
ccatgttgcc	caggctgttc	tgaaactcct	gggcttaagg	gatcgacca	cctccatctc	600
ccaaggcact	gggattatag	gcatgagcca	ccggcctgg	cctatcatca	tttattcatt	660
tattcatcta	tgcaaaaaa	ttctttgagt	gcctaattgc	taagcaatgg	gacaagcact	720
ggcaagtcac	actggcaaaa	tatcatccc	ccactcaagg	agcttatagg	tcagctgggg	780
agacaaagaa	gaacatgga	ccttgtaagt	agctaagtat	ggtgctaggg	gaaatatcca	840
taagttatgg	gaaccagag	gaattcattc	atttattcgt	ttagtaaata	tttatgtgcc	900
aaactcttgg	gacccaatgg	tgacctaagc	agacaagaca	catccaccta	cagtgtttac	960
agagtagtgt	gggagacaga	cattaatgaa	atgctcttac	agacctatca	ttacctattg	1020
tcatatgagt	tatgaaagaa	aaataacagg	ccgggcatga	tggtcacgc	ctgtaatccc	1080
agcactttgg	gagaccaagg	caggtggatc	acttgaggtc	aggagttaa	gaccagcctg	1140
gccaacatga	tgaaacccca	tctctactaa	aaatacaaaa	aaaaaaaaat	tatctgggca	1200
tggtggcagg	cagctgtaat	cccagctact	cgggaggctg	aggcaggaaa	ctcgcttgaa	1260
cctgggaggc	agaggttgca	ctgagctgag	attgcaccac	tgactccag	cctgggtgac	1320
agagcaagac	tctgtcaaaa	aaaaaaaaaa	aaaagaaagg	aaggaaagga	aggaaggaag	1380
gaaggaagga	aatagagtgt	aagagggggg	cctagtgtag	tctaagatga	ctcaggagaa	1440
gctgtttgag	ctgatgcctg	aagacgggtt	gcatgtaagt	agttgagtag	gtaaaagaga	1500
gggtgactat	catatcaggg	attcgggaga	aaaaaaaaa	gagagagaga	ggggaagagt	1560
gctgtggacc	cattgagctc	cagcccagct	ccaactctgt	gggtcaggaa	agactttcca	1620
gcacttaagc	tgactccaga	aggatgagta	ggagtgagcc	agctgaggag	gagtggggt	1680
ggaaggaaag	cattccagag	cagcagatag	cttgtgcaaa	ggcacacagg	cagctgggtg	1740
tggtggctca	cacctgtaat	cccagcactg	tgggaggcca	agatgggtgg	accgtttgag	1800
cccaggaatt	caagaccaac	ctggatgaca	tagtgaaacc	ctgtctctac	caaaaaaaaa	1860
aaaaaaaaaa	ttgaaaaaa	aaaagaagct	gggcatgggt	gcgtgcacct	gtgggtccag	1920
ctacccagga	aactgaggtg	ggagggaagt	cgaggctgta	gtgaaccatg	gtggcaccat	1980
tgcatccag	cccgggtgac	agagcaaggc	cctgtacaaa	aaaaaaaaaa	aaaaaagcat	2040
ggaggcaaca	gaacatagtg	gattggaagg	aaaaacaagt	ggttcagac	aggtgcagt	2100
gctcatgcct	gtaatcccag	cactttggga	ggccgaggcg	ggcagatcac	gaggtcagga	2160
gatcaagacc	atcctcgcta	acacagtga	accccgctc	tactaaaaat	acaaaaaat	2220
tagccaggcg	tggtggtgcg	tgctgtagt	cccagctact	caagaggctg	aggcaggaga	2280
atggcgtgaa	cctgggaggc	agagcttgca	gtgagcggag	atcatgccac	tgactccag	2340
cctgggcgac	agagcaagac	tcca				2364

<210> 1064

<211> 5755

<212> DNA

<213> Homo sapiens

<400> 1064

aagaccatcc	tggttaacac	ggtgaaaccc	tgtctctact	aaaaaaacaa	aaaattagct	60
gggtgtgggt	gcggggcgct	gtagtcccag	ctactctgga	ggctgaggca	ggagaatcgc	120
ttgaaccag	gaggcgagg	ttgcagttag	ccgagatcgc	gccactacac	tcagcctggg	180
cgacagagt	agactccgtc	tcaaaaaaaaa	aaaaaaaaatt	acttagacat	ggtggcacat	240
tcctttaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaac	ccaggagggtg	300
gaggttacag	tgagccgaga	tcgcaccact	gtgctccaca	ctccagcctg	ggcaacagag	360
tgaaactctg	tctcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	ggaataaagg	ggatgggttt	420
gacatctgac	aaaatgctgc	tgctgccatc	cgcttctgcaa	aaacctcaag	aatgaaatgt	480
ccttcccatt	gcccacacga	ggccctgcac	gagctgcttc	atccccttcc	aaacctcctc	540
tcctctctct	tcctctctct	actctgctca	gacacacggg	cctcctcact	gttctctcaa	600
cacgccacgt	gtggtctgcc	ccagggcctt	ggcacaggcc	atgcctctgc	ctggaacacc	660
tgccccaga	ttctcctatg	gctgacttct	cacacttggg	tcttagtgca	tgcatcacct	720
cctcaggagg	ggccccctgc	ccacccccag	tgaatctagc	cccattcagg	acagtcattc	780
ttattatgca	ctgattgtat	actaagccca	gagacttcaa	ctgtgggttc	tttttcatcc	840

tccccataaa	atccatccat	ccatccggtt	actcagacat	gaaattcttg	accctccaat	900
tcaggatctg	ggccacccag	tgcctagctt	tttttttttt	tttttttttt	ttttgcgaca	960
gagtttcatt	ctgtcaccca	ggctggagtg	cagtggtgca	atctcagctc	actgcaacct	1020
ccgcctcccg	ggttcaagcg	attctcctgc	ctcagcctcc	cgagtagctg	ggattacagg	1080
tgtgccacca	cgcccggtta	atttttgtat	ttgtagtaga	gacgggggtt	caccatattg	1140
gccagactgg	tcttgaacac	ctgacctcag	gtgatctgcc	ctcctcagcc	tcccaaagtg	1200
ctgggattac	tacaggcatg	agccactgca	cccgtcagcc	tagcttcttt	gtgttcattc	1260
attcattcat	tcattcattc	atcattcagc	aaatgtctat	gagcgcctac	tctgagccac	1320
tgaaccagct	gggctggccc	tgggggagaa	tcgacttccc	ctgcaaattc	actctcatca	1380
gatccccagg	ctgggtctag	atttggttag	atgcctcac	gttggggaac	tcattcctta	1440
ctaagaataa	ccaccaccaa	taccaaacag	tctcaagtac	caccaatagt	gctgagttct	1500
cagggtgact	acagcatctg	ctcccaagcc	cagcccagcc	catatggtgt	gtgctgtgtc	1560
aaagaacctg	ggttcaaata	ccatgtcctt	ttctaaccct	tggacaagcc	cctacccatt	1620
ttgtgcctcg	gtttccctag	ctgtaaaatg	gagatagtag	tgctctcttt	gtgggctcag	1680
caccaggcct	gttacacagc	tgggtcttaa	taaatgtgtc	ctgttactta	aggtctgata	1740
tgtgtagctc	ctgtcgtcgc	cgtccatggg	ggtgagtggg	gtggggaagg	ggtggtttga	1800
gtttctcgac	atcagtcac	gaggcgcggt	ccatgcaaat	gaaatgcaaa	tcccatgcaa	1860
ataaatctct	gggtgggtgca	aggctggagg	tacaagggtc	acgcatttgg	gggggcctg	1920
ggaaccccat	gaatcgagcc	caggcccgga	ggtgctgacc	cgcatccagc	ccggctttca	1980
gtgctcggtg	taaatgttta	cacctggccg	gccgccaggg	tccacgccgc	cccacactag	2040
gcagccagga	gggggaatgt	aaactcgggc	tgggggccc	gggacgctcg	ggaggagccc	2100
agacggagtc	gagtgtgggt	ggtgtgtaca	cgtgagttat	taaacaccga	ctgtatgcag	2160
tgaggaggat	gccaccaggc	actcacagca	ccaagtaact	ggtgcccgaa	tgggtaaagc	2220
tcagggcatt	cctgggggccc	cactagcgcc	ctcgaccag	ccagagggtg	aagtgaatag	2280
ggtaggcagc	catggaaggc	tccctggagg	aggcacctc	caaggtgagatt	tgcaagggg	2340
agtgtgagct	aggtacagtg	actcacgcct	gtaatcccag	ctctttggga	ggccaaagtg	2400
gaaggatagc	ttgagcccag	gagtttgaga	ccagcctggg	caacgttgtg	agattcccct	2460
ctctattaaa	caaaaaacaaa	aacaaaaaaa	attaaaaatt	agccaggcat	ggtggctcat	2520
gcctgtagtc	agtcctagct	acttggggagg	ctgaggtggg	aggatcgctt	gagcctagga	2580
ggtggagggt	gcagttagct	gtgatcacac	cactgcactc	cagcctgggt	gacagagcaa	2640
gaccctgtct	caaaaaaaaa	gaaagagaga	gagaaagaaa	gaaaggaag	aaaggaatag	2700
aaaagaaaaga	gagaagaaaa	aggaagaaaa	gagagagaga	gagggaggc	tgggtgcggt	2760
ggctcatgcc	tgtaatccca	gcactttggg	aggccaaggt	gggcggtatca	cttgagttca	2820
ggagcttgag	accagcatag	ctaacaggga	gaaaccctgt	ctctattaaa	aatacaaaaa	2880
ttagccagtc	atgctggcag	gtgcctgtaa	tcccagctac	tcaggggggt	gaggccggag	2940
aatcgcttga	acccggggagg	cagaggttgc	agtgtgctga	gattgcgcca	ctgcactcca	3000
gcctgaggga	caagagttag	actccatctc	caaaaagaaa	aaagaaaaag	agaaagaaag	3060
gggagtgagg	gtggggaggg	aggaagaaag	tgttctccat	gcaaggacct	atctgtgcaa	3120
aagcccagag	ctgggactcc	atgtccaggg	cagctctg	ccattgtctgc	ccacttctgg	3180
gcctgcttat	ccatctggat	gggaaacagg	ctcagagagg	ggcagagtca	atggaggaca	3240
ccagcatgta	gggaacagtg	tcagccccag	attcctgcct	ccagactgtc	ctaaacacca	3300
ccctccccgc	gcctttgtcc	cacactgcc	cctgcggga	atgacctctc	ctcctttcac	3360
tcttccccct	ggctcctcag	ctgcagccgc	tccggcctcc	ttgctgttcc	tgggatacgc	3420
cacactcagt	ctggcctcgg	ggcctttgca	ctggctgtgt	cccctgcctg	tgatgccatt	3480
ctcctctgcc	tggccaactc	ctacgtttat	tcaagtctgg	accttgtcat	cggctcctca	3540
ggaaggcact	ccgggacccc	cagatggggg	cggtccctg	tgactcctgg	cacggaggcc	3600
aaccccttcc	ttgttcaatg	gttccttgag	ggaccattcc	catgtgatta	tcgaccattc	3660
ggcaggcggt	caaagtcaaa	ggccccacac	tgagtctgg	cccagcgccc	tgtgcccggt	3720
ggctgctgga	gggacagacg	gggctgctgg	ctgaccatcc	cgtgcccgca	ggctgaggat	3780
gcagcgctgg	aaggcgggcg	ccttggcctc	agtgtctctg	agctccgtgc	tgtccatctg	3840
gatgtgtcga	gagggcctgc	ttctcagcca	ccgcctcgga	cctgcgctgg	tccccctgca	3900
ccgcctgcct	cgaacccctg	acgcccggat	tgcccgcctg	gcccagtgtg	agctcctcct	3960
ctgtgtggct	tcagataccc	ccaacgttag	gggtagaatt	tcaggcagtg	gagtgaggag	4020
tggggggggg	gtcataggtt	ttttaagat	agggccagcc	agcccccttg	cagggaggca	4080
gggacagaca	tcctaaaaga	ttattcaggg	caaggcatgg	tggcgctctg	ctataatccc	4140
agcacttttg	gaggctgaga	caggaggatc	tcttgagccc	aggagttcat	gaccagcga	4200
ggcaatgtag	cgagaccgcc	atctctacaa	aaaacttcag	aaattagcca	ggtgtagtg	4260

cgcacgcctg	tagttccagc	tacttgggag	gctgaggtgg	gaggatcact	tgagcccaag	4320
agttcaaggc	tgatttgagc	tatgattgca	ccactatact	ccagcctgag	caacagagca	4380
agattctgtc	tcaaaacatt	ataataataa	atacattttc	taaaaaaaaga	tggggtggag	4440
ggaggttgca	aattccccc	atggcctggt	ggagctaggg	tgacttctgg	gaactggggt	4500
ctttcggctc	agctgtcaca	aggaattagg	ctctgccctg	aggtcccgtg	ggggccagat	4560
ggagattaga	cctgggcatt	cgcctgggtg	gccccgcgg	cgcagcaggg	gggcggtgg	4620
gaggagagag	aggctggatc	tgaggtccca	gtgacctgcc	ccaggggaca	gggaccaagg	4680
ggaggcggga	gatggagcag	gagctaaaaa	ccggaagaaa	ggcccagaga	ttcgaagggg	4740
tgaggagggg	tgagagagag	agagacgggg	ctggggggcac	agacacgggc	aaaagtgtctg	4800
ctatagggac	acagaaatgc	ccaccctgag	ggcaagaccc	tcgcccact	ccccaccaat	4860
ccctaattgcc	tgccccaccg	caggtgctgt	ggggtgaggg	tggtgcgtgg	gccctgacct	4920
ctgtgcccac	gcacatgtcc	atgcgtgcgc	ctgcgcgggc	atctgaggcg	tggatgccgg	4980
caggggtgctg	gtgcagcgcc	tttgggtgtg	ggccacgagt	acgcccagt	gcgcgtctgc	5040
gcccgcacct	gccagccac	acaatcctct	tttcttgtcc	ttacaatgca	caagggtggc	5100
ctccagcacg	agctccactt	ctgtcctccc	accacttccc	tctctgcaag	cggcgtgaag	5160
tccttcctag	gactctggga	cagagacccg	ggcgggaccc	ccaaaatcca	gtgctccagg	5220
acttggggtg	cggggggcaa	agcacgaatg	gaggaatttc	aggcaactgcg	gagggctagg	5280
gccccatggc	gggtgcctgt	ctgccctact	gcaaaaagcg	agtggccact	gactcccaa	5340
gtccccatgt	tctaggctcc	tggtggaatt	tcaggctggg	gaccttgtgt	tctagccct	5400
gtgcaagcag	ccagccccgt	tgcagggagg	cagggacaga	cacctaaaa	gatgattcat	5460
tggttgccagg	tgcggtggct	cacgcctgtg	atcccagcac	tttgggaggc	cgaggtgggc	5520
ggatcacgag	gtcaggagat	ggagaccatt	ctggctaaca	ctgtgaaacc	ctgtctctac	5580
taaaattaca	aaaaaattag	ccgggcgtgg	tggcgggcgc	ctgtagtccc	agctactcgg	5640
gaggctgagg	cgggagaatg	gcgtgaaccc	gggaggcgga	gcttgcaagt	agccgagatc	5700
gcgccactgc	actccagcct	gggcgacaga	gcgagactcc	gtctcaaaaa	aaaaa	5755

<210> 1065
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 1065						
gaaaaattta	gccgggcgtg	gtggcggggc	catgtagtccc	ggctactc	ggaggctgag	60
gcaggagaat	ggcgtgaacc	cgggaggcgg	agcttgcaagt	gagccgagat	ggcgccactg	120
cactccagcc	tgggcgacag	agcgagactc	cgtctcaaaa	aaaaaaaaaa	aaataataat	180
gaa						183

<210> 1066
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1066						
tggctcaagc	ctgtaatccc	agcacttttg	gaggtcgagg	cgggcggatc	acgaggtcag	60
gagatcgaga	ccatcctggc	taacacgggt	aaaccttgct	tctactaaaa	atacaaaaat	120
tagccgggca	tagtggcggg	cgcctgtagt	cctagcta	cgggaggctg	aggcaggaga	180
atggcgtgaa	cccgggaggt	ggagcttgca	gtgagctgag	attgcgccac	tgcactccag	240
cctgggtgac	agagtggagc	tccgtctcaa	aaaaaaaaaa	aaaattaaaa	aa	292

<210> 1067
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1067						
caaaagttag	ccgggcgtag	tggcgggcgc	ctgtgggtccc	agctactcgg	gaggctgagg	60
caggagaatg	gcgtgaaccc	gggaggcgga	gcttgcaagt	agccgagatc	gcgccactgc	120

actccagcct ggggtgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa aaaaaaagat 180
t 181

<210> 1068
<211> 123
<212> DNA
<213> Homo sapiens

<400> 1068
aggcaggaga atggcgtgaa cccgggagggc ggagcttgca gtgagccgag atccccgccac 60
tgcaactccag cctgggagcag agagcgagct ccgtctcaaa aaaaaaaaaa aaaaatgctg 120
tta 123

<210> 1069
<211> 270
<212> DNA
<213> Homo sapiens

<400> 1069
tgggaggccg aggcagggtg atcacgaggt caggagatcg agaccatcct ggctaacacg 60
gtgaaacccc gtctctacta aaaatacaaa aaattagcg ggcgtggtgg cgggcgcctg 120
tagtcccagc tactcgggag actgaggcag gagaatggcg tgaacccggg aggcggagct 180
tgcaagtgagc cgagatcgcg cccctgcact ccagcctggg cgacagagcg agactccgcc 240
tcgaaaaaac aaaaacaaaa acacaaagtc 270

<210> 1070
<211> 303
<212> DNA
<213> Homo sapiens

<400> 1070
ggttgggggc tgcggccttg cgggctgcgc gagctggagg tgcgcgtgag cgagctgggc 60
ctgggctacg cgtccgacga gacgggtgctg ttccgctact gcgcaggcgc ctgcgaggct 120
gccgcgcgcg tctacgacct cgggctgcga cgactggcc agcggcgggc cctgcggcgg 180
gagcgggtgc gcgcgcagcc ctgctgccgc ccgacggcct acgaggacga ggtgtccttc 240
ctggacgcgc acagccgcta ccacacggtg cagcagctgt cggcgcgcga gtgcgcctgc 300
gtg 303

<210> 1071
<211> 15689
<212> DNA
<213> Homo sapiens

<400> 1071
agagcccaga gagctgaacc tgcattcccg acctgcggcg accgtcgtac accatgggcc 60
tccacctccg cccctaccgt gtggggctgc tcccgatgg cctcctgttc ctcttgctgc 120
tgctaattgct gctcgcggac ccagcgctcc cgccggacg tcacccccca gtggtgctgg 180
gtgaggcacg ggtctcgtgg tggatctgtc ggtcgggcgg gacgggccc gggcggggct 240
gccttcccgg tctgcttctg ttccagtcac gaaatggggg agcgtattgg tatctgtctt 300
gtcacttagg tgatctagat ctgcgcggctc acctcccgcc atgctgggag cgggtgtggt 360
cagctcccca cctcctgtcc tggtagaaaa tgggggtgag tgggagagtt accatctggt 420
tattcatagt tccacctgtc cgcattcatt ccaagccttg cctcccctta tcccattttt 480
aagctggaaa gacagggtgt tcagccccac tctgaggga tgggtgggggt gtgtagagt 540
gctcctgagt tgacttctgc atcgacctg gcctggttag gaggctgtca cctcgcaccc 600
ctccaatgcc acatatgcca gaaggcattg ctgaaaggaa cctccttagg gaaaggattg 660
ctgtcctagc tggccaccaa ctcccacaac ttatcagatg tgtggcattg cctgagggaa 720
aaggcctaag ggaaactgaa gacaactgaa gtcaggggaa aggggtggga caatggcca 780

gaacctgtgt	caggcaacat	gcttgtactc	ttaccctgcc	acacatgctt	ggactagact	840
atgtggaggg	tcggtgacct	ccccgtctca	ccccgtctct	tgatcacaa	cctggcaact	900
ctacaacggc	cactgtattt	ccttgcaggg	atgggcaggg	atgagacctc	tgtctggggg	960
gccttgggtg	cctcattgag	gægtcactc	ccatccagag	ctgggtgtgtc	cgtggccagc	1020
caggattcct	gaaagcagag	gcattctgag	catgaattac	acgtggagtc	tagtgcagca	1080
tgatctccat	gctctttctg	ctgagagtac	tttaaattggg	gacgatgcaa	atcacagaag	1140
ggtagagttg	gcaggtaggg	tggtgccagg	caggccccac	caggagttcc	cagcaggaa	1200
aagctccagg	gggatactag	gcccagggtc	accatgggat	ttgggcagac	ttggccctgc	1260
ctcccaaaag	cttgcaggat	aggaataaca	gtgatcccca	gagaggaagt	ctgtgtgggg	1320
caagcacaga	gaatccacca	accagcctg	gatgggtggg	tgtcaagtaa	ggcttcctgg	1380
agtatatagc	tggagctaag	gccaggagag	agtaattgggt	cggggagaga	cgtgagcatc	1440
tcaggctgcc	tgggatcgag	tcacaggagg	agtggactgc	acaggacttg	tgactggttg	1500
ggtcatctga	actttatctt	gagggcctca	gggagtcctg	ggttggcctg	cagagttcta	1560
agtctgaggg	gcgtggcatt	aggaagcatg	tggtctgtgg	cacacaaat	ggcacatagc	1620
cattttgcct	ggattgatgc	taaccgcaat	catcaattca	gtcagtctgt	ttatcccttg	1680
tcacagcaga	agagcctcag	accccaccca	gaatcacaga	gcagcaggag	tcctaactag	1740
cccagcttct	cagggagtga	ggctgctggc	cttagccctg	ggagacctca	cggtagggcag	1800
ttggataaag	agctcctggg	cacagagcag	ggatctgacc	ttgactgtca	gaagatcaga	1860
atcctctagg	ggtggatcct	gaaatgggtg	tggaggaaag	agagaccagc	gatgtgatac	1920
agaagaccct	gggcaagggg	aagggaccat	aggcaaggcc	atttccacct	cttgcagcct	1980
cagtctcccc	atctgttaag	tggaaatagt	aaggctgtcc	cæccagtg	ttacttgagg	2040
tgaaaggcat	gtggatggct	cttttcctag	ttccaggcgc	agatgggctc	aggaagtggc	2100
cactgctatt	tttagggggc	acacagcctg	accagggtaa	ggagcatctg	agcaaagcag	2160
atctggtgac	ttcctctttt	accatttccc	ctttggtaga	gacagtgacc	aggtctctg	2220
ccctgccctg	cccagtcac	aggcatgtca	tccagaggct	gtcatgacag	ggactccctc	2280
cctctgcacc	cataccatga	agggaggtga	aggcatgtgc	cgcccctgcc	tctcatggca	2340
ccctgaagac	actgggatgg	tgcccaggga	gggcacgccc	tgttcagggt	ggatttacgg	2400
tcagttccca	gtgaatgtcc	aggagagcca	agtgtcætt	tttcaactcaa	tgatcatgga	2460
ccctaaacgg	ggatgtgttt	gggaagtggc	gagagcatgg	catgtggggg	caggtgaggg	2520
ccgaaaggtc	aatgggagta	acgagactgt	gaagggtttt	gacgcagtgg	ggagggtatt	2580
gggtgtcacc	agggcccccag	agttctgacc	acactgaata	ggatggctgg	gatggagaga	2640
agtcacccta	gggcctggac	tgtggtgata	atgggtctgg	ttcagggtgg	ctgtttccaa	2700
tacgggctcc	cagccatgct	agggccctcc	agatgatctg	ctctctggca	ccttactgga	2760
ctctggcctt	tagtaaggcc	tgggcccctt	gtaggctggc	gggtgccaat	gtaagcttct	2820
ctcagctgtg	tttctgttca	tttccctccc	æcagcctgt	cctgcatact	ttgtctgggt	2880
gaatttttagc	tgagtggccc	agggctctgt	tctgtttcct	tcttcccttc	tcaggggcga	2940
caggaccctg	tcttctatgt	agcctgggat	agctatgggt	ggaagacttt	tgggttcaag	3000
cctccagggt	atatactttt	tttttttttt	gagaccgggt	cttgctctgt	caccaggctg	3060
ggagggcaat	ggcacgattt	tggctcactg	caacctctgc	ctcccggtt	caagcaattc	3120
tcctgtctta	ggctcctgag	tagctgggat	tacagggtgt	tgccaccaca	ccaaggtaat	3180
tttttgtatt	tttagtagag	atgggctttc	accatattgg	ccaagctggt	cttgaactcc	3240
tgaccgcaag	tgatccactc	acctcægct	cccaaagtgc	tgggattaca	ggcatgagcc	3300
cctgcgccct	gcctcgaagg	tatatatcta	atgacaaggg	ccttggccaa	actttggagg	3360
ttctggaatg	caaaggggtc	tccaagcccc	tcctcccagg	cagagctccc	atcggggctc	3420
attaaccata	gaaaccatgt	gtagagggtg	gtctgtgttt	gctgggggtg	attcagaca	3480
agatctcatt	taacagatac	ggaaactgag	gcctagtgtg	gggagtgaat	tcaccctgaa	3540
cccccttcca	ataatctgaa	tggcccagga	ggatgttcca	gtgaaaatcc	aggagactta	3600
ctttatcttg	agttggagac	aatgttaggg	cccttcccca	aacatgtcag	gcctctccca	3660
agccccccac	aggcatctct	gcaccacaca	gcagtagcag	cttttctgca	caaagatggt	3720
tccttggect	ttgggtcaag	gtccctgctc	tctgaatttc	ctgccaccag	cactgtgctt	3780
taatttgaga	tgtggaactg	cacaggctct	ccatattatc	tgtggctctt	cagggggtct	3840
gctgcagaca	tcaaagtctt	tgggagtctt	gaacctccg	ggctgagggc	æacatgt	3900
cctgtgcccc	ctgcagctcc	tgggtgattt	ggtaaccaac	tggaaagcca	gctggacaag	3960
ccgacagtgg	tgcactacct	ctgctccaag	aagaccgaaa	gctacttcac	aatctggctg	4020
aacctggaac	tgtctgtgcc	tgtcatcatt	gactgctgga	ttgacaatat	caggtggggg	4080
ctggggcaca	cagagggggg	tgtctgtcac	caacagtgcc	tgagaggcct	ccagagtctg	4140
ttccttctat	cctcatctcg	aggtcactga	cctctctcct	tccccaggtc	ctcgggtctg	4200

tctggtctg	tctggttggc	accacctctg	cactcccagg	cagaactaac	tttcccttcc	4260
tgctgccctt	gttccctctac	tctccagtc	tgccctctca	tgccctaac	caattttttt	4320
tttcttttat	tttgggatgg	agtcttgctg	tgctactcag	gctggcgcca	tctcagctca	4380
ctgcaacctc	cgtctccag	gttcaagcga	ttcttgtgcc	tcagcctccc	aagtagctgg	4440
gattacaggt	gcccgcacc	atgcctggct	aattttttgt	atttttagtg	gagatgggtg	4500
ttcaccatgt	tgcccatgct	ggtcttgaac	tcttgagctc	aagtgttctg	cccaccttgg	4560
actcccaaag	tgctgggatt	acaggcatga	gccactacgc	ctgcctacac	aaaatttctg	4620
tgtcccagcc	cctattcaga	gcctcggc	ggccccacc	ccttcccttg	tctgtgcctc	4680
ggcctccctt	acctctccag	ctgcttattc	ttcttgggac	atgccatgtc	tttgtacctg	4740
ctgttctttt	ggcctggaat	ctatttctac	accctttgcc	tgataaatgg	cttccattca	4800
cttttttttt	tttttttttt	tttggagacg	gagttttgct	cttattgccc	aggctggagt	4860
gcaatggcgc	gatctcggct	cacaactctt	tttttttttt	ttacttttta	ttttttgaga	4920
cagagtcttg	ctctgtgcc	caggctgggt	gcagtggcgc	tatctcggct	cactgcaagc	4980
tccgcctccc	gggttcacgc	cattcttctg	cctcagcctc	ccaagtagct	gggaccacag	5040
gcgcccgcga	cagtgcccg	ctaatttttt	gtatttttta	gtagagacag	ggtttcaccg	5100
tgtaaccag	gatggtctcc	atctactgac	cttggatcc	gcctgcctca	gcctcccaaa	5160
gtgctgggat	tacaggcgtg	agccaccaca	cccagcccca	ttcactcttt	aaaacatgac	5220
cctaggccag	gcatgggtgg	tctgctataa	tcccatcact	ttgggaggct	gaggcagtc	5280
gatcacctga	gctcaggagt	tgaagaccag	cctgggcaac	ttggtgaaac	cccatctcta	5340
ccaaaaatac	aaaaaaatta	gctgggcatg	gtggcatgca	cctgtagtcc	cagctactta	5400
gggggctgag	gcaggagaa	tgcttgagcc	agggagagc	aggttgagc	gagcagacca	5460
ctgtacccag	cctgggttgc	agagcaagac	cctgtctcaa	aacaacaaaa	acctgaccct	5520
ggtccctttg	tgacatgtcc	cttttgactc	ccagagcgg	tttgcctctc	ctcccaggcc	5580
ccatgcttgc	ttcctctaaa	catcatcatg	tgccgaatt	tgtctgcagg	catgtttgcc	5640
caaattgcac	aggcactgta	cattttatat	actttctttc	agttagtctt	acagcaaccc	5700
cgttttgaaa	taggtgctgt	tttctttttt	tttttttcac	cagtgttact	tgccaacagg	5760
tggtttttta	acctgcttta	caactgcgaa	atctggaggc	tcaatgaggt	tacaaaattg	5820
actgtgctca	ctcagctaat	aagtggtaga	atcagaattc	aaatccagaa	tgtgtggcgt	5880
tgagctgagg	ttccctccca	ggctgagttc	cgtgaaggga	gggagtgtgt	gtctgtttta	5940
tccttatagc	agtagaacca	gaaacacagt	tgccgcctga	taaatgtttg	agctgaatgg	6000
agtctcccaa	ttctaaaagt	tttctggtg	gggtgcggtg	gctcatgcct	gtaattccag	6060
cactttggga	ggctgagggt	gacagatcat	gaggtcagga	gttcgagact	agcccgcca	6120
acacagtga	accctgtctc	tactaaaaat	gcaaaaatta	aggccgggca	tggtgtctca	6180
cgctgtaat	cccagctagt	caggagtctg	aggcaggaga	aacgcttgaa	cctgggtggt	6240
ggaagtgc	gtgagctgag	atcgtgccat	tgtactccag	cccaggtgac	agtacaagac	6300
tccatctcaa	aaaaaagaaa	atacaaaaat	acaaaaatga	gccgggcgtg	gtggcacacg	6360
cccatgatcc	cagctactg	ggaggctgag	acaggagaat	cacttgaacc	tgaggagcag	6420
aggttgagc	gagcagagat	gggggcactg	cactctagcc	tggttgacag	agcgagactg	6480
tctcaaaaaa	aaaaaaat	aaaagttttt	cccagagacc	cgctagctgc	tcctccaggt	6540
gccctggcct	gccggctgtt	tgtgatgcc	attttgatga	ctccttccctc	ctctgtgtgt	6600
tgtgtgactg	gggttatttc	tgggctgttg	atgtgcattt	ctatttttat	actggggaca	6660
cagcctcagg	tgctgccagt	tggaggtgcc	agctgatacc	aagaggggcc	tgtctgcctt	6720
cactgcttct	ctgacccgtt	tagattttca	cccagcgcag	aactgctttg	gctttccaga	6780
acagttttct	gcattttgct	gtttgataat	ttatttttag	tagcaacaag	ctactttgct	6840
atgtggatcat	tgggataatc	tacaaattgc	cctggagaga	atgggcctcc	aggacctgtt	6900
atctgggtca	gttggtggga	tcctgtcagc	ttcagtggtc	gatatactaag	tgggcaagtg	6960
ggactcagga	ccaccagaaa	ctccaggttc	ctgtgttttg	ggggacatt	tgcttcttca	7020
gtgtgtggcg	aggccagagc	aaggttccca	gcctgcgaca	gaggcacaag	gcttttctcc	7080
tggtataagg	tgtctcccct	ggcccatcac	cctgttccca	tcattttctt	aggccttgac	7140
aaccctcttc	ccacaggaga	tggtgcagca	gctgtgtact	gagccctgag	gcggggtctg	7200
tcctgtctgg	ttctgttttg	cactgcagct	acagaaacta	tgagatcacg	tgtgtggtgt	7260
tagaagctgc	tgagtctgtg	gtaattttat	acacagttct	agaaaactaa	taggtctgggt	7320
gcagtggctc	acacctataa	tcccagcact	ttgggaggct	aaggcaggag	gatcgcttga	7380
gcccaggagt	ttgagaccag	catgagcaca	tagtgtggc	ctgtccctac	aaaataaata	7440
aacaaaataa	taaaataaatt	agccagacct	ggtgggtgct	gcctagctgt	tcaggagggt	7500
gaggtaaag	gatcacttga	gcccaggagg	ttatggctac	agtgagctat	gatctcctca	7560
ctgtgctgca	gcctgggcaa	cagagtgaga	ccctgtctca	aaaaagaaga	agaaagaaaa	7620

gtaagaaagg	gctgttaggg	atcttaagtc	agtagctggt	ggtccatgtc	ctatgtcatg	7680
gcgcttagga	atgtgctggg	caagccctga	gccttggtggc	tgcagtctga	cagttgatac	7740
agccctgggg	tactgggagg	tcataggagc	atggttcatt	cccttcctcc	atggaggatg	7800
tgtttggagg	ttggctggct	gctgtgtcca	atggcagag	gaagcgggac	ccaattatac	7860
ctacctgggg	ccacacaagg	ccttcctcct	gtctctcccc	accagctccc	atcatttctc	7920
tgggccttgc	tccttctcct	acctgcctac	ccaccatac	agcagccctg	aggcatgggtg	7980
cctttctagg	gtttgttttt	gtttgtttgt	ttgttttttt	gagacagagt	ttcgtcttta	8000
ttgcccaggc	tggagtgcag	tggcgcaatc	tgggtcact	acacctctgc	ctcccaggct	8100
caagcacttc	tcctgcctca	gactccggat	aactgggatt	acaggtacac	gtcaccatgc	8160
ctggtaatt	tttgtgtttt	tagtagagat	ggggtttcac	cctgttgggc	aggctggtct	8220
cgaactccta	acctcaagtg	atccacgtgc	ctcagccttc	caaagtgtctg	agattatagg	8280
cgtgagcccc	tgtgcctggc	ctagtgtgtt	ttgttttgtt	tttttttttt	ttttgagaca	8340
gggtcttact	ttgctgcccc	ggctgggtgtg	cagtggcatg	atcacggctc	actgcagcct	8400
caatatccca	ggtgcaagt	atcctcctgc	ctcagccttc	caagtagctg	ggaccacag	8460
cctgcaccac	catgcctggc	taatttttta	tttttagtag	caacaaggcc	tactgtatt	8520
gccaggctg	gccttgaact	cctggcctca	agcattctct	ccaccttggc	cttgcaaatt	8580
gttggaacta	caggtgcag	ccactgcacc	cgccctctgt	ctggttctgt	tgtgtactgc	8640
actcaccacc	tccttcacct	gggatacgtt	gggctggcag	gagctggatg	caaggagatg	8700
gagcgatgga	aagctgaaag	agggtagact	gcctcttggg	gtccagtgtg	aagttcacgg	8760
cagaatcagg	actggtactt	ccttctccca	accaggctca	agacctcat	tctagagtag	8820
ggtcacgggg	gagaggggaa	tgttgctttg	acaggggtcc	tggggctcagt	attggagta	8880
agtatgcctt	ggtgggggtc	tcatttggat	gtaattactc	tgatctgtgc	tttttatttt	8940
tatttattta	tttatttatt	tatttattta	tttatttatt	tttttgagac	agagtcttgc	9000
tctgtcggcc	aggctggagt	gcagtgggtg	gatctcagct	cactacaacc	tccgtgtcac	9060
aggttcaagc	gattctctg	cctcagcctc	ctgagtagct	gggattacag	tcgcctccca	9120
cgacacccgg	ctgattttgt	atcttttagta	gagatgggg	ttcgccatgt	ttgtcaggct	9180
ggtctcaaac	tcctcactca	ggtgacctgc	cagcctcagc	ctcccaaagt	gctgggatta	9240
acaggcgtga	gccactgcac	ctgggcaatt	tttgtatttt	tagtagaagc	agggtttcac	9300
catattggcc	aggctggttt	caaactcctg	acctcaagtg	atcctcccac	ctcagcctcc	9360
ctaagtgtctg	ggattacagg	tgatctgtgc	ttttcaacc	tgctttgtta	cttttcggtc	9420
tctcctatcc	acctggacca	acctgggcat	gagaagggag	tatgactcag	gacatgtgc	9480
actgttggga	cacaccaagc	tcagtgtccc	ctccgggtca	ctggctcaat	atcctctcac	9540
aacaggctgg	tttacaacaa	aacatccagg	gccaccacgt	ttcctgatgg	tgtggatgta	9600
cgtgtccctg	gctttgggaa	gaccttctca	ctggagttcc	tggaccccag	caaaagcagc	9660
gtgggtatgt	agcccttact	caaggcctcc	gggagctggg	atggggtttc	tgccggactg	9720
gagctggagc	tggaggaact	ctgctgggtt	gtagggacag	cctgtgagct	gtctctgatc	9780
agcgtgggca	cagagccctg	tagcattctt	ccaaggacct	gctagctgtc	acagtctcca	9840
tgtctggcat	agtgtagggt	gccggcacta	gctgtactct	ttcttatact	ctgtatttct	9900
gtctacagg	tcctatttcc	acaccatggt	ggagagcctt	gtgggctggg	gctacacacg	9960
gggtgaggat	gtccgagggg	ctccctatga	ctggcgccga	gccccaaagta	agcaggcact	10020
ctcattccct	ccctgacgtc	tcgggaggta	ggggtgagg	gatcatgggc	accacagacc	10080
ttgggctctc	cccttgtcct	tggctgtctc	ctgtccctgg	gcctctggca	tccagtctag	10140
tggtcacagc	caccaccttt	ggtcagtctt	atcctgtcct	ccatttccca	ccctgggacc	10200
tctgggcctg	tgagccctgg	ggagaaatat	aaggcttctt	cccttcatgg	aaggcggggg	10260
gaccagacc	gctctgtttg	aatgtgagca	ccctccctcc	ccctctctgt	cttgtgtctg	10320
gcctgagaaa	agctcagttg	ttccggctcc	aggaccttcc	ccacctgacc	cctgcctggc	10380
tctggcctgc	agatgaaaac	gggcccact	tcctggccct	ccgcgagatg	atcgaggaga	10440
tgtaccagct	gtatgggggc	cccggtgtgc	tgggtgcccc	cagtatgggc	aacatgtaca	10500
cgctctactt	tctgcagcgg	cagccgcagg	ctggaagga	caagtataatc	cgggccttcg	10560
tgtcactggg	tgcgccctgg	gggggcgtgg	ccaagacctt	gcgcgtcctg	gcttcaggta	10620
agaccctacc	tggcccagcg	tggggggctg	ttgccaggaa	ttctgccctc	tcttcccttc	10680
ctaagtgtcc	tcctgggcca	gcatgcctcg	tgtctgtccc	acggtgtgtg	gggtctatgc	10740
aaatctaccc	ctaaaaagtc	aaagaagaaa	gaggctgaca	aatctagttt	ctcagagaaa	10800
agcattttaat	aggacatac	gaatagaagc	cacatctgtg	tctcagggtg	gggcaagaca	10860
agatgggtgga	tccccacact	attagccccc	agaccagag	cttatattct	gtagggaaag	10920
ggcgactccg	atgcgatgtg	ttgaaatttg	aaggatgata	acacagaggc	tgttttgatt	10980
tatggttaag	tacgtgcaca	agaaacagta	gataaagtgg	aaatctcagt	ggccttctctg	11040

gatctggggt	taatcagaag	ccaacatggt	ggattagtat	ccaaaatgga	gttgctttgg	11100
tctccacaat	gactattctc	ttgggtcagc	cctgtttttt	ttttaatttt	tatttttga	11160
gacagagtct	ggttctgtca	cccagactgg	aatgcagtg	tgcaatcttg	tctcactgca	11220
acctctgcct	cccgggttca	agcgattctg	cctcagcctc	ctgagtagct	gggattacag	11280
gtgcccgcca	ccatgcctgg	ctaagttttg	tgttttagta	gagatgaggt	ttcatcatgt	11340
tggccaggct	ggtcctgaac	tccctgacctc	agatgttcca	ctcgcttcgg	cctcccaaag	11400
tgctgggatt	acaagtgtga	gccactgtgc	ctggccatcc	ctccctctta	ccccatcctt	11460
acttcttcat	ccccaccttc	accgcagagg	aggaaggcta	gagcattttt	tttttttttt	11520
tggaggcagg	gtcttttctca	ctctgccatc	caggttgagg	tgcagtagcg	gatttttgg	11580
tcatgcaacc	tccaccttcc	aggttcaagt	gatttctcctg	cctcagcctc	ccgggtaact	11640
gggactacag	gcgcgtacca	ccacaccggg	ctaatttttg	tatttttagt	agagactggg	11700
tttactatg	ttggccgggc	tagtctctaa	ctcctgacct	caagtcagga	ggatctgcct	11760
gcctcagcct	cccaaagtgc	tgggattaca	agcatgaacc	accgcacccg	gccagatttt	11820
tttgtatttt	tagtagagat	ggggtttcac	catttttggtc	aggctggtct	tgaactcctg	11880
acctcaaatg	atctgcccac	cttgaccttc	caaagttctg	ggattacaag	gatgagccac	11940
tgactcatta	tagccaccac	cagtttttta	tttagagtt	gcgcctcat	ctgtgggcag	12000
cacggagcct	ctgtaggcaa	cacagggagg	aagcaggtgc	agatctggct	gggcctgctt	12060
gcctggcaat	tgggaaagcc	acccctttta	tggctcctcc	cccgtctttt	catgactgtt	12120
gcagctcacc	agctgcagct	gtagagtaga	gcttcttctc	ctagaaggga	gctttcctcc	12180
ctctgctagg	acttggggga	ggcttatgga	ccctcacttt	gggagctatg	agccagggtc	12240
gtgccaagca	tctcatgagc	tcaagtgcct	gccactgctt	gacctgcttg	gtctactggc	12300
attgtgattg	ggtcaggccc	agtgactctg	agttggctgg	aagacactca	gatttagtga	12360
ggactcatta	tagccaccac	ttcgggtctg	cctgggcctg	gagggacgga	tgtgggcata	12420
ccctgagttt	agacaggtag	ccccggcccc	tttcagagtt	tctctgtgag	tccccttaga	12480
gctttgtttc	aaaggctggg	aagctgttct	gtcctgcctt	ggcagtccag	gactgggtgt	12540
gtggtgcggg	gaggtggaag	tccgtgcacc	cctaggggct	ttccttgcct	caggggtccc	12600
ccagccaggc	cacagcaggc	agagctgagg	ccctacagtc	agtctgagag	gcctccctgc	12660
tttcagatac	agggtgggg	gatgggtgac	catggatcct	gaacaggcca	gaggcccctg	12720
ttcccaagtt	gcagctttta	cttcctggag	gcctccctga	ctgccgggtg	tttgtgttgt	12780
tcacattcct	gtgtatagg	actccgcctc	catctcagc	ctcccctcgt	gccctgtctc	12840
gcacacgcct	ggctgcccag	gtcagcgcac	atgcaagtgg	gtggaatgag	gccacggctg	12900
gctgaacgct	ggtctgagct	taggaaaaga	aaaactggta	cacagttcag	tgtcataaaa	12960
gggaaagcag	aacatgtcat	ctccgagttg	ccaacctgct	gactcacttt	agactaggtc	13020
agtgccccaca	ggcctgatca	gcacttggag	gatggtagag	tttacaggca	aggaagcatc	13080
ataaatcacc	ctgtgggtat	gtgccgcctt	actccctggt	gaggaaaagca	aaaaaaaacaa	13140
aacatagctt	ggatgtgtgg	ttcccagatg	tagcaaaaat	aaagagaaac	aataaaagcc	13200
aaggcaagca	aactgggcaa	catagcaaga	ccccctctgt	ataaaaagtg	gaaacatttt	13260
tagcccaggc	gtggtgggac	gtgcttgtag	ttccagctat	gcaggaggct	gacataggag	13320
gatcacttga	accagggagg	tggaggttgt	agtgaagcaa	gactgtacca	ctgcactcca	13380
gcctgggtga	cagaatgaga	ccctacttca	aaaaaaaaaa	aaaggaaaaa	tttgccaggc	13440
atgaggcatg	gtggcgcata	cctgtagtcc	cagctactcc	aaaggctgag	gcgggaggat	13500
tggttgagcc	tgagaggttg	aggctgctgt	gagccgtgat	catgccatta	tactccagcc	13560
tgggcaacag	agtgaaccc	tgtctcaaaa	agaaaaaaa	agagccaagg	cagggatggg	13620
agtcacagtg	attacaatga	tgataaccgg	gtagagatgc	gggactgtgg	actgggcccc	13680
tggctggggt	ctggcagggg	cctgggtgtg	aacatgctgc	ccaaccagct	ggcattccta	13740
agcacagact	gaccagagcc	ttctccctgc	aggagacaac	aaccggatcc	cagtcacg	13800
gcccctgaag	atccgggagc	agcagcggtc	agctgtctcc	accagctggc	tgctgccta	13860
caactacaca	tggtcacctg	agaaggtgtt	cgtgcagaca	cccacaatca	actacacact	13920
gcgggactac	cgcaagtctt	tccaggacat	cggctttgaa	gatggctggc	tcatgcgga	13980
ggacacagaa	gggctggtgg	aagccacgat	gccacctggc	gtgcagctgc	actgcctcta	14040
tggtagtggc	gtccccacac	cagactcctt	ctactatgag	agcttccctg	accgtgacct	14100
taaaatctgc	tttggtagcg	gcgatggtag	tgtgaacttg	aagagtggcc	tgcagtggca	14160
ggcctggcag	agccggcagg	agcaccaagt	gttgctgcag	gagctgccag	gcagcgagca	14220
catcgagatg	ctggccaacg	ccaccacctt	ggcctatctg	aaacgtgtgct	ccttggggcc	14280
ctgactcctg	tgccacagga	ctcctgtggc	tgggcgtgg	acctgctgtt	ggcctctggg	14340
gctgtcatgg	cccacgcgtt	ttgcaaagtt	tgtgactcac	cattcaaggc	cccaggtctt	14400
ggactgtgaa	gcatctgcc	tggggaagtg	ctgtttgtta	tcctttctct	gtggcagtga	14460

agaaggaaga	aatgagagtc	tagactcaag	ggacactgga	tggcaagaat	gctgctgatg	14520
gtggaactgc	tgtgacctta	ggactggctc	cacagggtgg	actggctggg	ccctgggtccc	14580
agtccctgcc	tggggccatg	tgtccccctt	attcctgtgg	gcttttcata	cttgccctact	14640
gggcccctggc	cccgcagcct	tcctatgagg	gatgttactg	ggcgtgggtc	ctgtacccag	14700
aggtcccagg	gatcggtcc	tggccccctg	ggtgaccctt	cccacacacc	agccacagat	14760
aggcctgcca	ctgggtcatg	gtagctagag	ctgctggctt	ccctgtggct	tagctgggtg	14820
ccagcctgac	tggcttcctg	ggcgagccta	gtagctcctg	caggcagggg	cagtttggtg	14880
cgttcttctg	ggttcccagg	ccctggggaca	tctcactcca	ctcctacctc	ccttaccacc	14940
aggagcattc	aagctctgga	ttgggcagca	gatgtgcccc	cagtcccgca	ggctgtgttc	15000
caggggccct	gatttctctg	gatgtgctat	tggccccagg	actgaagctg	cctcccttca	15060
ccctgggact	gtggttccaa	ggatgagagc	aggggttga	gccatggcct	tctgggaacc	15120
tatggagaaa	gggaatccaa	ggaagcagcc	aaggctgtc	gcagcttccc	tgagctgcac	15180
ctcttgctaa	ccccaccatc	acactgccac	cctgccctag	ggtctcacta	gtaccaagtg	15240
ggtcagcaca	gggctgagga	tggggctcct	atccaccctg	gccagcacc	agcttagtgc	15300
tgggactagc	ccagaaactt	gaatgggacc	ctgagagagc	caggggtccc	ctgaggcccc	15360
cctaggggct	ttctgtctgc	cccagggtgc	tccatggatc	tccctgtggc	agcaggcatg	15420
gagagtcagg	gctgccttca	tggcagtagg	ctctaagtgg	gtgactggcc	acaggccgag	15480
aaaagggtac	agcctctagg	tgggggttccc	aaagacgcct	tcacgctgga	ctgagctgct	15540
ctccacaggg	gtttctgtgc	agctggattt	tctctgttgc	atacatgcct	ggcatctgtc	15600
tccccttggt	cctgagtggc	cccacatggg	gctctgagca	ggctgtatct	ggattctggc	15660
aataaaaagta	ctctgggatgc	tgtaagggtg				15889

<210> 1072

<211> 384

<212> DNA

<213> Homo sapiens

<400> 1072

tatggtgctg	gcatataacc	agctgtcagg	tctttgcccc	ctctgttcgc	ccctgcttcc	60
tggcgccagg	agtccatgtc	ctctctggtt	ccccagggtt	gcgagagtgg	agggggacca	120
cgagctccc	atgcctctcc	tgctctgcag	ggaacttgc	agatggcccc	tggcgccagg	180
tcgagactca	agcccactcc	caacccccgc	cccgaactgc	ccggactggc	ggggtgacgc	240
tgcactctgc	gcccctaaaa	cgaacagatt	aacccctctc	ttgggaactg	aacatgctga	300
cctggcctct	cccggttccc	cccgcactct	taacccccgg	gcagagttac	aggggctgac	360
tggccgcacc	caggtgccct	cggg				384

<210> 1073

<211> 3871

<212> DNA

<213> Homo sapiens

<400> 1073

gaggcaggac	cttgtcctat	tcattaatct	tgccccctcaa	cagttatatt	cagaggggca	60
agaagtgttt	cagggttctt	ggcccttgtt	tgaccagtgc	tcctaaccct	catgtcttgg	120
gtcattgttg	ttataatctg	gggttacctt	ttggaaggtc	atgggggtacc	cttttgcaaa	180
agttatgggc	cctctccttg	gaaactgcac	acacaccatg	cagcttacaa	ttcagggagt	240
tcacagggtct	acagaatcct	ggaaactctc	atgtccggtt	ctactcattg	tagcttcagt	300
ggaaccttct	agcagtcctt	tccagctcct	ccccagctcc	tcagctctgc	ttccctccgc	360
ccatcaagcc	ctcctcagcc	cataaggtgg	gccagggtgg	ctgtggggat	aaatcagagt	420
gcccacaagt	gcagggggccc	aaagacatcc	cagagcaaac	ccaagaatcc	ctctacaagc	480
cccagcccc	tcagaaggat	gcattttgcc	ccctctgttt	atttgtttgt	ttttaattat	540
gaaagttagg	catggtcatt	gttgaaaatg	tgagaaatgc	agagaagtta	aaatgatgct	600
ttttgtttag	ggcgctgctg	cttctggtt	aagatcctaa	atcaaagcag	ctgccagatc	660
tggacctaa	acttgcttcc	catcacctta	cataaaaagaa	agagcactgg	actagaatc	720
aaagatctga	attcccatca	aatctctgct	attactagct	tttatctcta	tttatttatt	780
tatctgtcta	tctatctagt	accttttgtg	aatatgagtg	tttctcaccg	aggccctccc	840
atctctcttg	cccccgatcc	tggaatggac	caaatacctt	gtttactgaa	ggatacagat	900

ggcatgtgac	tgttgagaat	cactcaccct	cttagagcca	tggtttcctc	ttctataaaa	960
tagggatggt	cgtgcctatt	tgctaatacat	gagtgacaat	gacataaggt	acataaaagct	1020
gtactgcatg	atgcaaacat	aacatcataat	ttgtagggtt	gttgctaata	atactatcca	1080
tcagcaaagc	agtcattcat	ttactcagtc	aaatactgat	gcactggta	attcagtttc	1140
ctcttttcta	aaatggggat	aaaaatagga	cttagctcat	agggatattta	agattcagtg	1200
agttaataata	tataaaatac	ttagagcagt	ccttgggaaca	tattaagaac	tcaatacata	1260
ttagctagtt	gagcaggctg	tagtattttgt	tccagccaag	aaaagactgt	tctctaacag	1320
cacaggaaat	aaagatgggg	ttaggcacga	cacggcagca	ggacttacct	tctgtctaata	1380
tcagctggca	gtcaaagaaa	gaattatttag	aagcctatga	gcttggtctc	ccaaagatct	1440
actgagtaca	gggggatatt	taaagaataa	aaatccctag	accacttac	agtacaggag	1500
agacaagaag	ctgttcacac	aataacaagt	gctaaattcc	ttgttttta	tactgacagc	1560
tgaagtttta	gagaagagaa	ggatcaataa	agaccggaat	attaaagcag	acaggcctaa	1620
aagaggattt	tagatttgat	aaagaattcc	tccagttctc	agagcaggga	ctttggaggg	1680
taacaacttg	gatttcagtc	cttgcctgcc	acttactgat	tgtatgacct	tggaaaagtt	1740
acttcacttc	tgtgagcaat	gattctctca	tctggaaaac	aaaacaaaac	aaaaaaaacta	1800
acaagggtag	taataatacc	tacctcccta	cctcatagg	ctgatgagaa	gattaaaaag	1860
tacctacata	aagcccttct	ctgcgtgcct	ggagcatggc	aagggctcca	tgttccttac	1920
tatttttttt	tttttttttt	aatgaaaagt	catgggcgc	accaaagctc	agaatttttg	1980
cagtaaggaa	ttatgattct	acattgaaat	ttgccagaag	gggagctgac	tgccctcatga	2040
gacatttttg	aatgaggcca	aaaaaggaaa	caagtgtatc	ctgggatttt	acgagatgct	2100
aggatgtcc	ttagcactta	atcctcatga	ctaccctatg	atgtaagtac	tatctgttgt	2160
ccctatttta	cagttggcca	aggtcacata	gctgaaacgg	acttctgtgt	gtcttctaac	2220
ttttgctttc	aggtctggaa	aaatgcaatg	ttaacctaga	ccctctttga	aatactgaag	2280
atggtaaatc	tatcccttcc	tcactttctg	ttttctaaaa	taacagtcct	tgttccttac	2340
aatgtctgtt	ttccagattc	ttagaagact	tttgccttat	tttccataac	tctttacttg	2400
tgatccctga	atgacaccgg	gggtatagca	gagaatgtcc	atttcctcaa	agttcaaagg	2460
tcctacaaaa	aatagttgct	agcctggcat	gatgggtgtg	gcctgtagcc	tcagctacct	2520
gggaggctga	ggcaagagga	ttgcttgagc	tgaggagttt	gaggctgcag	cgagccatga	2580
tcacgccact	gctctccagc	ctggatgaca	aagcaagatc	acatcttaaa	ataaaaataaa	2640
ataaaattta	aaaatatata	aaaaataaaa	agtggtgcca	ctaagtgtcc	tggacagcat	2700
tagaagaaagc	aagagataga	agagtgcata	cacctgaaag	gaaagagatg	cggtctctcc	2760
ctctcccttg	agtagccacc	ggctatcct	ggagcatagg	agtaggattt	tatccccag	2820
cttcggcctc	cccaggcagc	acttcctttc	tgtgctttga	ctccaatttg	gatggtgctc	2880
aggcgggaag	taggctgggg	tgggaggagt	ttaggggagt	atttgtcttc	tctcctgttt	2940
tgccctagag	attctggcca	ggaagacaaa	tggctagtac	cacttgggtcc	ttttcttttc	3000
ttctttttgag	acagggtcct	gttctgttgc	ccaggctgga	gtgcagtggc	gtgatcgcg	3060
ctcacgcgac	cctcccaggc	tcaagcattc	ctctcacctc	agcctcctga	gtagctggga	3120
ccacagctcc	actaattttg	aagttttttt	ggtagacatg	aagtctccct	gtgttgccg	3180
ggctggctctc	aaactcctga	ctcaagcag	tcctcctgtc	ttggcctctg	gaaatgctgg	3240
gattacaggc	gtgagccact	gtgctggcct	cttttttctt	tttctttttt	tttaagggtt	3300
ttatttggtta	aatgggaagt	ctgtgccatc	aactgagcat	tgtattttct	ccttagtaag	3360
agcctgggtg	ggccactggg	agagaactat	acattaaatg	taagtagcct	cggttagag	3420
agcccctggc	tggtttcctt	tcctttctct	ccttttctct	actttgggtg	ctggaggcat	3480
ttcccagact	ccagtttctt	accacctca	cggattttgc	tattgtatta	tcacctcctt	3540
tatcatctcc	aaaattgact	ttatggagac	tcattaaaag	aaaaaatcat	cgcccgagg	3600
cggtggctca	cgccaagaa	gcgggcgaat	cacctgaggt	gcggagtctg	tgaccagcct	3660
gacaaaaaca	gagaaacccc	atctctacta	aacaatacaa	aattagctgg	gcgtgggtgt	3720
gcacgcctgt	aatcccagct	actggggagg	ctgagacaag	agaatcactt	gaacccggga	3780
ggcagaggtt	gcagtgacca	aagatcgcac	tattgcactc	cagcctggc	aacaagagca	3840
aaactctatc	tcaaaaaaaa	aaaaaaaaaa	a			3871

<210> 1074
 <211> 3872
 <212> DNA
 <213> Homo sapiens

<400> 1074

gaggcaggac	cttgtcctat	tcattaatct	tgcccctcaa	cagttatfff	cagaggggca	60
agaagtgttt	cagggttctt	ggcccttggt	tgaccagtcg	tcctaaccct	catgtcttgg	120
gtcattgttg	ttataatctg	gggttacctt	ttggaaggtc	atgggggtacc	cttttgcaaa	180
agttatgggc	cctctccttg	gaaactgcac	acacaccatg	cagcttacia	ttcaggggagt	240
tcacaggtct	acagaatcct	ggaaactctc	atgtccgggt	ctatcattg	tagcttcagt	300
ggaaccttct	agcagtcctt	tccagctcct	ccccagctcc	tcagctctgc	ttccctccgc	360
ccatcaagcc	ctcctcagcc	cataaggtgg	gccaggtggc	ctgtggggat	aaatcagagt	420
gccacaagt	gcagggggcc	aaagacatcc	cagagcaaac	ccaagaatcc	ctctacaagc	480
cccagcccac	tcagaaggat	gcattttggc	ccctctgttt	atttgtttgt	ttttaattat	540
gaaagtaggg	catggtcatt	gttgagaatg	tgagaaatgc	agagaagtta	aaatgatgct	600
ttttgtttag	ggcgctgctg	cttctggctt	aagatcctaa	atcaaagcag	ctgccagatc	660
tggacctaa	acttgcttcc	catcacctta	cataaaaga	agagcactgg	actaggaatc	720
aaagatctga	attcccatca	aatctctgct	attactagct	tttatctcta	tttattttatt	780
tatctgtcta	tctatctagt	acctttttgt	aatatgagtg	tttctcaccg	aggccctccc	840
atctctcttg	ccccgatcc	tggaaatggac	caaatacctt	gtttactgaa	ggatacagat	900
ggcatgtgac	tgttgagaat	cactcacctc	cttagagcca	tggtttccct	ttctataaaa	960
tagggatggt	cgtgcctatt	tgctaatact	gagtgacaat	gacataaggt	acataaagct	1020
gtactgcatg	atgcaaacat	aacatcatat	ttgtagggtt	gttgctaata	atactatcca	1080
tcagcaaagc	agtcattcat	ttactcagtc	aaactgat	gcactgggtac	attcagtttc	1140
ctctttttgta	aaatggggat	aaaaatagga	cttagctcat	agggtattta	agattcagtg	1200
agttaataata	tataaaatac	ttagagcagt	ccttggaaaca	tattaagaac	tcaatacata	1260
ttagctagtt	gagcaggctg	tagtatttgt	tccagccaag	aaaagactgt	tctctaacag	1320
cacaggaaat	aaagatgggg	ttaggcacga	cacggcagca	ggacttacct	tctgtctaata	1380
tcagctggca	gtcaaagaaa	gaattatttag	aagcctatga	gcttggtctc	ccaaagatct	1440
actgagtaca	gggggatatt	taaagaataa	aatccctag	accacttac	agtacaggag	1500
agacaagaag	ctgttcacac	aataacaagt	gctaaattcc	ttgattttta	tactgacagc	1560
tgaagtttta	gagaagagaa	ggatcaataa	agaccggaat	attaaagcag	acaggcctaa	1620
aagaggattt	tagatttgat	aaagaattcc	tccagttctc	agagcaggga	ctttggaggg	1680
taacaacttg	gatttcagtc	cttgccctgcc	acttactgat	tgtatgacct	tggaaaagt	1740
acttcacttc	tgtgagcaat	gattctctca	tctggaaaaa	aaaacaaaac	aaaaaaacta	1800
acaaggtga	taataatacc	tacctcccta	cctctagagg	ctgatgagaa	gattaaaaag	1860
tacctacata	aagcccttct	ctgcgtgcct	ggagcatggc	aagggtcca	tgtgaaccac	1920
tatttttttt	ttttttttta	atgaaaagtc	atgggcagca	ccaaagctca	gaattttggc	1980
agtaagggaat	tatgattcta	cattgaaatt	tgccagaagg	ggagctgact	gcctcatgag	2040
acatttttga	atgaggccaa	aaaaggaaac	aagtgtatcc	tgggatttta	cgagatgcta	2100
ggatgtcct	tagcacttaa	tcctcatgac	taccctatga	tgtaaagtact	atbgttgct	2160
cctattttac	agttggccaa	ggtcacatag	ctgaaacgga	cttctgtgtg	tcttctaact	2220
tttgctttca	ggctctgaaa	aatgcaatgt	aaacctagac	cctctttgaa	atactgaaga	2280
tggtaactct	atcccttcc	cactttctgt	tttctaaaaa	aacagtcctt	gttccttaca	2340
atgtctgttt	tccagattct	tagaagactt	tttgcttatt	ttccataact	ctttacttgt	2400
gatccctgaa	tgacaccggg	ggtatagcag	agaatgtcca	tttccctcaa	gttcaaaggt	2460
cctacaaaaa	atagttgcta	gcctggcatg	atgggtgtgtg	cctgtagcct	cagctacctg	2520
ggaggctgag	gcaagaggat	tgcttgagct	gaggagtttg	aggctgcgc	gagccatgat	2580
cacgccactg	ctctccagcc	tggatgacaa	agcaagatca	catcttaaaa	taaaataaaa	2640
taaattttta	aaatatataa	aaaataaaaa	gtggtgccac	taagtgtcct	ggacagcatt	2700
agagaaaagca	agagatagaa	gagtgcaaac	acctgaaaag	aaagagatgc	gggtcttccc	2760
tctcccttga	gtagccaccg	gctatccctg	gagcatagga	gtaggatttt	atccccagc	2820
ttcggcctcc	ccaggcagca	cttcctttct	gtgctttgac	tccaatttgg	atgggtgctca	2880
ggcgggaagt	aggctggggg	gggaggagtt	taggggaata	tttgtcttct	ctcctgtttt	2940
gccctagaga	ttctggccag	gaagacaaat	ggctagtacc	actgggtcct	tttcttttct	3000
tcttttgaga	cagggtcttg	ttctgttgcc	caggctggag	tgcagtggcg	tgatcgcggc	3060
tcaccgcagc	ctcccaggct	caagcattcc	tctcacctca	gcctcctgag	tagctgggac	3120
cacagctcca	ctaattttga	agtttttttg	gtagacatga	agtctccctg	tgttgcccgg	3180
gctgggtctca	aactcctgac	ctcaagcagt	cctcctgtct	tggcctctgg	aaatgctggg	3240
attacaggcg	tgagccactg	tgctggcctc	ttttttcttt	ttcttttttt	ttaagggtttt	3300
tatttgtaa	atgggaagtc	tgtgccatca	actgagcatt	gtattttctc	cttagtaaga	3360
gcctgggtgg	gccactggga	gagaactata	cattaaagt	aagtagcctc	tgggtagaga	3420

gcccctggct	ggtttctctt	cctttctctc	cttttctcta	ctttgggtgc	tggaggcatt	3480
tcccagactc	cagtttctta	ccacctcac	ggattttgct	attgtattat	cacctccttt	3540
atcattccca	aaattgactt	tatggagact	cattaaaga	aaaaatcatc	ggccgggagc	3600
ggtggctcac	gccacgaagg	cgggcgaatc	acctgaggtg	cggagtctgt	gaccagcctg	3660
acaaaaacag	agaaacccca	tctctactaa	acaatacaaa	attagctggg	cgtgggtggtg	3720
cacgcctgta	atcccagcta	ctgggggaggc	tgagacaaga	gaatcacttg	aaccggggag	3780
gcagagggtg	cagtgaccaa	agatcgcact	atgcactcc	agcctgggca	acaagagcaa	3840
aactctatct	caaaaaaaaa	aaaaaaaaaa	ag			3872

<210> 1075
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 1075						
tcacgcctgt	aatcctagca	ctttgggagg	cggaggcagg	cggatcacct	gaggtcggga	60
gttcgagacc	agcctgacca	acatggagaa	accccgctctc	tactaacaat	acaaaaaaaaat	120
tagccgagca	tgggtggcgca	tgcctataat	ctcagctact	tgggaggctg	aggcaggaga	180
atcgcttgaa	cctgggaggc	ggagggttgca	gtgagccgag	atcgcgccat	tgcactccag	240
cctgggcaac	aaaagcgaaa	ctcggtctca	aaaaaaaaaa			280

<210> 1076
 <211> 8680
 <212> DNA
 <213> Homo sapiens

<400> 1076						
cctcagcggc	cgggcccacg	gccccgagca	gccatgctgg	gcgcgcgggc	ctggttgggc	60
cgcgctcttc	tgctgccccg	cgccggtgca	ggcctcgccg	cgagccgcag	gtacgggagg	120
gcgagcgggc	ccctagggca	ctccctgcgc	ctgcctgcgg	gccagtgga	gggtcttccg	180
gacaccggtc	cccagtgcc	gtctggacca	cccctgcatg	cctggccctt	ccccacccc	240
cacctcgggt	ctgctcctga	gacctggctc	tggctgtaag	gccctcctcc	cctcctctcc	300
cgctctcatc	ccttccctcc	tctccctc	cttccagtgc	agtgccagct	cctcagggac	360
tgttctgaca	ctgcttccag	gaagccttcc	ttgcaccca	gtgctggatg	ctgggtcaag	420
ggccttttctc	caatagtaac	ctgtgccctg	tcacagtcct	ttattgctgc	atggaccttt	480
cgttattttag	gtctgcctgc	agtcccactt	ccaggctgaa	ctccctgagg	tctctgattc	540
cctaggtgtc	ctggagtctg	gcccaggacc	tggccccaca	ggagtcccag	caggtggggc	600
ctgagtggag	gagtgcccct	gtctggtttc	ctctgtttgt	ccctcacctg	gtcgagtcct	660
agaccctact	gatctttggc	tgtccagcca	ccaacagtag	gctgccttcc	agtggggcca	720
caccagggcc	tgccagagag	atgcctccaa	gcagctgctc	caggaagggc	cggggggagg	780
gcctggggag	gggtaagaat	ggagcccca	gaaccattct	gccattgtg	acccgccttg	840
acctcacagc	catccttccc	accgccaggc	ccaggaggtt	gggggagact	aacctggcaa	900
ggagcccca	atgagccacc	tctcctcacc	ccccaaaaaa	cataaggggg	agacaaaagg	960
ccacagtctc	ccccatggtt	cagaaagggtg	ggttgggctg	ggagcagggg	tcctactggg	1020
gtgctgagtg	aaatggagca	ggtgctgggg	ggcctgggag	aaggtgggtg	gaggcccctg	1080
gcttgctga	tgcaccagtc	ctcgccaggg	gtagctcctc	ccgggacaag	gaccgaagtg	1140
cgacggtcag	tagttcagtg	cccatgcctg	ctggagggaa	aggaagccat	ccttcatcta	1200
caccccagag	ggtccccaac	cgctgatcc	acgagaagtc	accatacctc	ctacaacatg	1260
cctacaatcc	tgtggactgg	tgagcacctc	tcttggggcc	ctgcctggaa	tcgctggggg	1320
cctgggcccc	tcccagaccc	cctgggctac	tgagtgatgc	cccacctgc	tgggtctagg	1380
tacccttggg	gacaggaagc	cttcgacaag	gccaggaagg	aaaacaagcc	gattttcctc	1440
tcaggaatg	ctcccactt	cctgatgtg	ggggtgtggg	cagggagtgg	cagtggatgg	1500
gggagggtcc	tctcggcctg	gcgggtcttc	caggagacta	gaggccagga	cgtcttccat	1560
gtagccaggg	ccacttggcc	agcctccctc	tgaccctgtg	ctggccccct	gacctctccc	1620
catggccctg	ttcagtcggg	tactccacct	gccactggtg	ccacatgatg	gaagaggagt	1680
ccttccagaa	tgaggagatt	ggccgcctgc	tcagtgagga	ctttgtgagt	gtgaaggtag	1740
accgtgagga	gcggcctgac	gtggacaagg	tgtacatgac	atcgtgcag	gtgagcagcc	1800

ctcctcggga	gtgtatgcgc	cacatgggct	cagagcagct	cccctcacc	tcgccctctc	1860
tccgccaggc	caccagcagc	ggcgggggct	ggcccatgaa	tgtgtggctg	actcccaacc	1920
tccagccctt	tgtcgggggc	acctatttcc	ctcctgagga	tggttgacc	cgagtcggct	1980
tccgcacagt	gttgctgaga	atacgagaac	aggtgggtgt	gcctccggga	gttgggggac	2040
caggggtggg	gactagga	caagagcccc	tccccctagc	tgacctccag	gtgtgcccc	2100
acctcccgca	gtggaacag	aacaagaaca	ccctgctaga	aaatagccag	cgtgtcacca	2160
ctgccctgct	ggcccgatca	gagatcagcg	tgggtgaccg	ccagctgccg	ccctctgccg	2220
ccaccgtgaa	caatcgctgc	ttccagcagc	tggatgaggg	ctatgatgag	gaatacgggtg	2280
gcttcgctga	ggcccccaag	tttcccacgc	cgggtcagtg	ccccacgcc	gccttagccc	2340
aggctttggc	cttctgattc	ctatgctggt	cagggaccta	ctggctcctg	gcctcaccca	2400
tagcttcctg	tcctcctgac	tggcagtgac	ctccttgccc	ctagcctgtc	ggtagctatc	2460
ggtgaagacc	cgactgctgg	tgtcagcagt	gacctctca	ccttaacct	gatgatgacc	2520
ttctgtcccc	tgacttggtc	agttaccag	tgacctgac	ttggctaata	acattctggg	2580
ctctaggggg	acaagtaact	tactggtcct	ctgtgaacca	atgatattct	gacctctggc	2640
ttaggctatt	accttctgtc	ctgtgggttg	actcttgacc	tcacagcctg	tccagagact	2700
gcctgttgag	tgaactccca	gcctctgctc	ggcccaaggc	ctcctgacca	ccccgatctc	2760
tgtccccact	ttcccattct	ctcacctgca	tgttcttggg	gccccacag	tgatcctgag	2820
cttccctgtt	tcctactggc	tcagccatcg	actgactcag	gatggctctc	gggccagca	2880
gatggccttg	cataccctga	aaatgatggc	taacgggggc	atccgggacc	atgtggggca	2940
ggtgacgggc	actgggtgtt	ccctggaggg	gcagcagggg	gctgtggggg	ggggcagaag	3000
ctgggactgg	cctccagctt	tgtatccgca	cagggctttc	accgctactc	cacagaccgc	3060
cagtggcacg	tcctcactt	tgagaagatg	ctctatgacc	aggcacagct	cgctgtggcc	3120
tattcgcagg	ccttccaggt	gacctctgac	ccagcccgag	agaacaggca	tctcactctg	3180
gctgcccctc	ccaaggcctt	cctggtgact	gtggcttctc	ttaatctgaa	tccccctt	3240
cctcccatgt	accactacc	caggcttccc	tccccgcct	gcctcagaga	atgttgccac	3300
cttccacctg	ggcctcccca	gtgacctctc	tgttcacagt	ctcctttctt	ccctttctta	3360
gctctctggg	gatgaattct	actctgacgt	ggccaaaggc	atcctgcagt	acgtggctcg	3420
gagcctgagc	caccgggtgt	gtgtccatgg	tggcaggcag	gcctggctgt	gggaggggtt	3480
ggggcctcca	ctgccctgtg	ggccggggcc	agccaactct	cccctcccca	cagtccggag	3540
gcttctatag	cgcagaagat	gcagactcgc	ccccagagcg	gggccagcgg	cccaaaggag	3600
gcgcctacta	tgtgtggacg	gtcaaagagg	tcagcagct	cctcccgagag	cctgtgttgg	3660
gtgccaccga	gccgctgacc	tcaggccagc	tcctcatgaa	gcactacggc	ctcacagagg	3720
ctggtaacat	cagccccagt	caggtgagga	cttctggggg	cacctgacgg	gccctgggtc	3780
ctgccaggcg	tgtgagctcg	cagacaaagg	ccattctcct	caggaccca	agggggagct	3840
gcagggccag	aatgtgctga	ccgtccggta	ctcgtctggg	ctgactgctg	cccgttttgg	3900
cttggatgtg	gaggccgtgc	ggaccttgct	caattcaggg	ctggagaagc	tcttccaggc	3960
ccggaagcat	cggcccaagc	cgcacctgga	cagcaagatg	ctggctgcct	ggaatgggtg	4020
ggcagcacac	ctgagaccga	gcctgtctgt	aggatcccc	ttcaaaagc	ccctgtcttt	4080
ccggcagcgg	ctaaatgtct	actctccctt	gattagcgtt	attattctca	gttgacaaaa	4140
gaggcttaag	gagcttgagt	aaccgcacca	aggtcacgcg	caagggtctg	gaaccccgcc	4200
atgtctggct	ttggagccca	agatcttagg	gatcacccat	ggctccaggg	aggtgttggg	4260
gcctaagggtg	atagggtgga	catgcctgga	gggtcctggc	cagcttctta	ccactacttg	4320
tctctcctgg	ctccaggctt	gatggtgtca	ggctatgctg	tgactggggc	tgtcctgggc	4380
caagacaggc	tgatcaacta	tgccaccaat	ggtgccaaag	tcctgaagcg	gcacatgttt	4440
gatgtggcca	gtggccgcct	gatgcggacc	tgctacaccg	gccctggggg	gactgtggag	4500
cacaggtttg	gggctgggta	gaccgggagg	gcccgtctcc	ccaacgcgtc	cccagcctac	4560
ctctgcccta	cttctccctt	ccatgtggac	tccagtcctg	gctctgccag	gtgcttgctg	4620
tgagtttgta	gcttccctgg	gcccattttac	tcattctggg	agtgggctga	tggcacctgc	4680
ccaagagggg	tcattctggg	ggttaagtga	acaaatgcgt	gaaagggcct	cctctgggaa	4740
aggccctctc	tcctgggggt	ctccccagcc	cctcccgtaa	tgctgtccc	ccagcaacc	4800
accctgctgg	ggcttccctg	aggactacgc	cttcgtgggt	cggggcctgc	tggacctgta	4860
tgaggccctca	caggagagtg	cgtggctcga	tggtctctg	cggctgcagg	acacacagga	4920
caagctcttt	tgggactccc	aggggtggcg	ctacttctgc	agtgaggctg	agctgggggc	4980
tggcctgccc	ctgcgtctga	aggacgggtc	gtgggggtgc	agggctagtc	tggggctctg	5040
ggaggtgtaa	gtgcagcgtg	ggtgaagagc	tgggtgtggc	aggagccctc	ctggctttgt	5100
gtctctgcta	cttattaatg	gcgtgatttt	tggctgctgt	aatatttctg	tgtctcaatt	5160
tctttttttt	aaatagagac	agagtcttgc	tatgttgccc	aggctgatct	tgaatcctg	5220

ggctcaagtg	atcctccacc	ctcggcctcc	caaagtgctg	ggattacagg	catgaaccac	5280
tacactcagc	gtgttttgtt	tcgttccttt	cttttctttt	tatttccttt	ctctttcttt	5340
ctttctcttt	cctttcttcc	tttctttctt	ttctttctct	ctttctttct	cttttttttt	5400
tttttttgag	acagggctct	actgtcaccc	aggctggaat	gcagtggcat	gatcttggct	5460
cacagcaacc	tctgcctccg	gggctgaatc	aattctccca	cctcagcctc	ctgagtagct	5520
aggactatag	gcatgcacca	ccatgcctgg	ctaatttttt	gtagagatgg	gatttctcca	5580
tgttgcccag	gctggctctg	aactactggg	ctcaagtgat	ctgcccacct	cggcctccca	5640
aagtgcctgg	attacaggcg	agagccacca	tgccctggcct	gtttcttaat	aagtaaaatg	5700
gagctaacat	tggtactacc	ttcagggtt	gatgtaaaga	tgaatgtagc	tgttctgtaa	5760
acatgcttag	cacagtaact	gacacccatg	gattcagata	ttgaccaagg	ctcacttggt	5820
ctctgccctc	atgaagctta	cagtatggta	ggggagacag	cgaaaatgca	gtaatgatgc	5880
aaaaacacat	gcacaaatgt	gcagttaaaa	ttgtggtgag	tgccatgaag	aagaggacg	5940
ctctatgtgt	gcctgtctcc	tatcacccat	gtgccttgct	tgtggttaaa	ggtttctttc	6000
ccaaaactca	aatttttagct	cctcaaagat	caggactttc	tgccactggt	gtatccccag	6060
ggtctagtgt	ggttctggca	cattgtaagt	gcttaataaa	tgtaactga	gtgaatgaaa	6120
gggccttggg	agagaaccac	agaggaggac	caactcagcc	tagggagaga	ttagaggaca	6180
cctgtgacag	gtgtcattta	accaaggcct	gaggggaaag	aggggccatg	tggccatgga	6240
gaagctgtgg	agagagttca	ggcataggga	gcagtgcatt	acaggcctgg	tgcaggcagc	6300
ctgtatcctg	gaggacaggc	agggcccgcg	tgctccagga	gggcaccg	gagaatgctg	6360
aggccggcag	ggcacggaag	ccgtcttttt	tttttttttt	tcctaagaaa	agaaggctgg	6420
tctcaaactc	ctgggctcag	gtgatcctcc	cgccctcggt	tcccagggtg	tgggactaca	6480
ggtgtgagcc	accatgcccg	gctggcaagg	aggttttaag	tggattgtga	tctgctctgg	6540
tatggtttta	aggaggtcac	tctgaccact	gatggagaga	agtgggggtg	ggggaacag	6600
gcgaccagtt	aggaggccat	tactcgtggt	cagtcacagg	aggcattggt	gaaggctcag	6660
aggatgtgga	agtatgagat	ggggagacat	ggtgagattt	ggatctcttc	tggccacagc	6720
cctggcaaga	ctcacagatg	gattagaagc	ggagggagag	gggagggaag	gggacaggat	6780
gatgccgctc	tagcttgagc	agctgagtg	ctggacagag	gcatcagcag	cgaggaggga	6840
gcctggagac	caacagttga	ggctaggaca	ggtagagtgg	agggtgccat	aaaaaagaca	6900
gcaaagtact	gataactgct	ggagtggcat	ccacacccag	agcggggaag	gggcaggatg	6960
ggcagggcct	tttctctgtc	ccgtccccc	agtggccctg	gatacagtc	tgggcagggt	7020
cctgggactc	agtgcactgc	ccttaccccc	acccctcgcc	tccctatgtg	ctgtagacca	7080
ggatggagca	gagcccagcg	ccaattccgt	gtcagcccac	aacctgctcc	ggctgcatgg	7140
cttcacgggc	cacaaggact	ggatggacaa	gtgtgtgtgc	ctattgaccg	ccttttccga	7200
gcgcatgctg	cgtgtcccgg	tggcgttgcc	cgagatggtc	cgcgccctct	cagcccagca	7260
gcagaccctc	aagcagggtg	ggggtgaggg	catctgggct	gggacctcgg	gtaggaggga	7320
agttggggct	gcgatggcag	atgggaacag	ggggtggggt	tcctgggctg	tcccagagc	7380
tcaggctctg	gtgtgtgcag	gcacgtggcc	tgtcagacag	ggaggcagaa	gttaatatga	7440
gtcctgtggt	gctgatgaag	tgttctctct	tacgtcttgg	tgtcagtgtg	attgcttctg	7500
tccatactgt	gttactgggt	tggtgtgact	tccgggtgtg	tgtagccctg	gaggtgtgtg	7560
tctgtgcacc	tacctttgag	ggggatgctg	gtgtgagtgt	ttgtctgtct	gcatgtggat	7620
gccccatctg	caggtttgcc	tctgtgtctg	cctgcatgct	tggtgtctct	gtgtttgtgt	7680
gtgtggtatc	tgccctctgt	tgggcatcta	ctgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	7740
gtgtgtgtgt	gtgtgtgact	actctgtgtc	tgtctgaatg	ggtctctgtg	tgtcttgggt	8000
cttctgggtg	tgtgtctccc	catgtttgta	tctgtacat	tgtgtatatg	tatgacattt	7860
ccacttcggg	attctcatgt	gtgagtgtgt	gtgtgtgttc	ccacttgcca	agcattaact	7920
catcctggca	gctgagatga	gtccctgttc	cttcttagag	atatacgggt	gggcggaagg	7980
aggatgggga	agccctgggt	gtctagggct	cagccctccc	tcccttgaca	caccggagtg	8040
acctttctat	tccggtcaga	tcgtgatctg	tggagaccgt	caggccaagg	acaccaaggc	8100
cctggtgcag	tgcgtccact	ctgtctacat	tcctaacaag	gtacccatcc	ctgtgagccc	8160
aatctgccac	ctccccagag	ctgccccctc	ccatcctcag	ctcctcaaca	tctccttcc	8220
ctcagaatgt	tgggaagagg	gaacttccca	gtgggccttt	ctaattggga	ggtgacccca	8280
ccccggcagg	tgactctccc	tgtctgtctg	ctgccctagg	tgctgattct	ggctgatggg	8340
gaccctcgca	gcttctctgt	ccgccagctg	cctttctctga	gtacccctccg	acggttgga	8400
gaccaggcca	ctgcatatgt	gtgtgagaat	caagcctgct	cagtgcccat	cactgatccc	8460
tgcaattac	gaaaactact	acatccatga	ctgccccaac	ccccttgggg	tggggcagaa	8520
ggtgaagcat	cccaactgac	tagagactca	ggccctgcag	ggccctatag	aacctgtggc	8580
catccctgag	caccctgcca	ccagggtgacc	tcggccatac	tcactgcccc	cttgggcac	8640

ccactcaccc tagaataaac ttaacagtgt cccgtggttaa

8680

<210> 1077

<211> 8677

<212> DNA

<213> Homo sapiens

<400> 1077

cctcagcggc	cgggcccacg	gccccgagca	gccatgctgg	gcgcgcgggc	ctggttgggc	60
cgcgctcttc	tgctgcccgc	cgccggtgca	ggcctcgccg	cgagccgcag	gtacgggcgg	120
gcgagcgggc	ccctagggca	ctccctgcgc	ctgcctgcgg	gcccagtgga	gggtcttccg	180
gacaccggtc	cccagtgcca	gtctggacca	ccccctgcat	cctggccctt	ccccacccc	240
acctccggtc	tgctcctgag	acctggctct	ggctgtaagg	ccctcctcccc	cctctccc	300
gtcctcatcc	cttccctcct	ctcccccttc	ttccagtgca	gtgccagctc	ctcagggact	360
gttctgacac	tgcttccagg	aagccttcct	tgcacccag	tgctggatgc	tgggtcaagg	420
gcctttctcc	aatagtaccc	tgtgcccgtg	cacagtcctt	tattgctgca	tggaccttcc	480
gttattttag	tctgctgca	gtcccacttc	caggctgaac	tccctgaggt	ctctgattcc	540
ctaggtgtcc	tggagtctgg	cccaggacct	ggccccacag	gagtcacagc	aggtgggcgc	600
tgagtgaggg	agtccccatg	tctggtttcc	tctgtttgtc	cctcacctgg	tcgagtccca	660
gaccctactg	atcttggcct	gtccagccac	caacagtagg	ctgcttcca	gtggggccac	720
acccaggcct	gccagagaga	tgcctccaag	cagctgctcc	aggaagggcc	gggggagggg	780
cctggggagg	ggtaagaatg	gagccccaag	aaccattctg	cccattgtga	cccgccctga	840
cctcacagcc	atccttccca	ccgccaggcc	caggaggttg	ggggagacta	acctggcaag	900
gagcccccaa	tgagccacct	ctcctcacc	cccaaaaaac	ataaggggga	gcacaaaggc	960
cacagtctcc	cccatggttc	agaaaggtgg	gttgggctgg	gagcaggggt	cctactgggg	1020
tgctgagtga	aatggagcag	gtgctggggg	gcctgggaga	aggtgggtgg	aggcccctgg	1080
cttgccctgat	gcaccagtc	tcgccagggg	tagctcctc	cgggacaagg	accgaagtgc	1140
gacggctcagt	agttcagtg	ccatgcctgc	tggagggaaa	ggaagccatc	cttcatctac	1200
acccagagg	gtccccaacc	gcctgatcca	cgagaagtca	ccatacctcc	tacaacatgc	1260
ctacaatcct	gtggactggg	gagcacctct	cctggggccc	tgccctggaat	cgctggggtc	1320
ctgggcccc	cccagacccc	ctgggctact	gagtgatgcc	ccaccctgct	gggtctaggt	1380
acccctgggg	acaggaagcc	ttcgacaagg	ccaggaagga	aaacaagccg	attttcctct	1440
caggtaatgc	tcccaccttc	cctgatgtgg	gggtgtgggc	agggagtggc	agtggatggg	1500
ggagggctct	ctcggcctgg	cggtcttcc	agggactag	aggccaggac	gtcttccatg	1560
tagccagggc	cacttggcca	gcctccctct	gacccgttgc	tggccccctg	acctctcccc	1620
atggccctgt	tcagtcgggt	actccacctg	ccactggtgc	cacatgatgg	aagaggagtc	1680
cttccagaat	gaggagattg	gccgcctgct	cagtgaggac	tttgtgagt	tgaaggtaga	1740
ccgtgaggag	cggcctgacg	tggacaaggt	gtacatgacg	ttcgtgcagg	tgagcagccc	1800
tcctcgggag	tgtatgcgcc	acatgggctc	agagcagctc	ccctcaccct	cgccctctct	1860
ccgccaggcc	accagcagcg	gcgggggctg	gcccataaat	gtgtggctga	ctcccaacct	1920
ccagcccttt	gtcgggggca	cctatttcc	tcctgaggat	ggcttgacc	gagtcggctt	1980
ccgcacagt	ttgctgagaa	tacgagaaca	ggtgggtgtg	cctccgggag	ttgggggacc	2040
aggggtgggg	actaggaaac	aagagcccct	ccccctagct	gacctccagg	tgtgccccca	2100
cctcccgag	tggaaacaga	acaagaacac	cctgctagaa	aatagccagc	gtgtcacca	2160
tgcctgctg	gcccgatcag	agatcagcgt	gggtgaccgc	cagctgccgc	cctctgccgc	2220
caccgtgaac	aatcgctgct	tccagcagct	ggatgagggc	tatgatgagg	aatacgggtg	2280
cttcgctgag	gcccccaagt	ttcccacgcc	gggtcagtgc	cccacgccc	ccttagccca	2340
ggctttggcc	ttctgattcc	tatgctggtc	agggacctac	tggctcctgg	cctcaccat	2400
agcttccctgt	cctcctgact	ggcagtgacc	tccttgcccc	tagcctgtcg	gtagctatcg	2460
gtgaagaccc	gactgctggt	gtcagcagtg	accctctcac	cttaacctag	atgatgacct	2520
tctgtcccc	gacttggcca	gtgacccagt	gaccctgact	tggctaata	catctgggc	2580
tctaggggga	caagtaactt	actggtcctc	tgtgaaccaa	tgatattctg	acctctggct	2640
taggctatta	ccttctgtcc	tgtgggttga	ctcttgacct	cacagcctgt	ccagagactg	2700
cctgttgagt	gaactcccag	cctctgcctg	gcccaggcc	tcctgaccac	cccgatctct	2760
gtccccactt	tccattctc	tcacctgcat	gttcttgggtg	ccccacagt	gacccctgagc	2820
ttcctgttct	cctactggct	cagccatcga	ctgactcagg	atggctctcg	ggcccagcag	2880
atggccttgc	ataccctgaa	aatgatggct	aacgggggca	tccgggacca	tgtggggcag	2940

gtgacggggca	ctgggtgttcc	cctggaggggg	cagcagggggg	ctgtggggg	gggcagaagc	3000
tgggactggc	ctccagcttt	gtatccgcac	agggtcttca	ccgctactcc	acagaccgcc	3060
agtggcacgt	ccctcacttt	gagaagatgc	tctatgacca	ggcacagctc	gctgtggcct	3120
attcgcaggc	cttccagggtg	acccctgacc	ccagcccaga	gaacaggcat	ctcactctgg	3180
ctgccccctcc	caaggccttc	ctggtgactg	tggcttctct	taatctgaat	cccctgttcc	3240
ctcccatgta	ccactaccc	aggcttccct	ccccgcctg	cctcagagaa	tgttgccacc	3300
ttccacctgg	gcctccccag	tgacctctct	gttcacagtc	tcctttcttc	cctttcttag	3360
ctctctgggtg	atgaattcta	ctctgacgtg	gccaaaggca	tctgcagta	cgtggctcgg	3420
agcctgagcc	accgggtgtg	tgtccatggt	ggcaggcagg	cctggctgtg	ggaggggttg	3480
gggcctccac	tgccctgtgg	gccggggcca	gccaaactctc	ccctcccccac	agtccggagg	3540
cttctatagc	gcagaagatg	cagactcgcc	cccagagcgg	ggccagcggc	ccaaagaggg	3600
cgcctactat	gtgtggacgg	tcaaagaggt	tcagcagctc	ctgccggagc	ctgtgttggg	3660
tgccaccgag	ccgctgacct	caggccagct	cctcatgaag	cactacggcc	tcacagaggg	3720
tggtaacatc	agccccagtc	agggtgaggac	ttctggggtc	acctgacggg	ccctggtgcc	3780
tgccaggcgt	gtgagctcgc	agacaaaggc	cattctctc	aggaccccaa	gggggagctg	3840
caggggccaga	atgtgctgac	cgtccgggtac	tcgctggagg	tgactgctgc	ccgctttggc	3900
ttggatgtgg	aggccgtgcg	gaccttgctc	aattcagggc	tggagaagct	cttccaggcc	3960
cgggaagcatc	ggcccaagcc	gcacctggac	agcaagatgc	tggctgctg	gaatggtggg	4020
gcagcacacc	tgagaccgag	cctgtctgta	ggatccccct	tcacaaagcc	cctgtctttc	4080
cggcagcggc	taaatgctca	ctctcccttg	attagcgta	ttattctcag	ttgacaaaag	4140
aggcttaagg	agcttgagta	acccgcccac	ggtcacgcgc	aagggtctgg	aaccccgcga	4200
tgtctggctt	tggagcccaa	gatcttaggg	acacccatg	gctccaggga	ggtgttgggg	4260
cctaagggtga	taggggtggac	atgcctggag	ggtcctggcc	agcttcttac	cactacttgt	4320
ctctcctggc	tccaggcttg	atggtgtcag	gctatgctgt	gactggggct	gtcctggggc	4380
aagacaggct	gatcaactat	gccaccaatg	gtgccaaagt	cctgaagcgg	cacatgtttg	4440
atgtggccag	tggccgcctg	atgcggacct	gctacaccgg	ccctgggggg	actgtggagc	4500
acaggttggg	ggctgggtag	accgggaggg	cccgtctccc	caacgcgtcc	ccagcctacc	4560
tctgccctac	ttctcccctc	catgtggact	ccagtccctg	ctctgccagg	tgcttgcctg	4620
gagtttgtag	cttccctggg	cccatthact	catctgggaa	gtgggctgat	ggcacctgcc	4680
caagagggtt	catctggagg	gttaagtga	caaatgcgtg	aaagggcctc	ctctgggaaa	4740
ggccctctct	ctggggctg	tcccagccc	ctcccgtaat	gcctgtcccc	cagcaaccac	4800
ccctgctggg	gcttccctgga	ggactacgcc	ttcgtgggtg	ggggcctgct	ggacctgat	4860
gaggcctcac	aggagagtgc	gtggctcgag	tgggctctgc	ggctgcagga	cacacaggac	4920
aagctctttt	gggactccca	gggtggcggc	tacttctgca	gtgaggctga	gctgggggct	4980
ggcctgcccc	tgcgtctgaa	ggacggtcag	tgggggtgca	gggctagtct	ggggctcctg	5040
gagggtgtaag	tgacgcgtgg	gtgaagagct	ggtgtgggca	ggagccctcc	tggcttttgt	5100
tctctgctac	ttattaatgg	cgtgattttt	ggctgctgta	atatttctgt	gtctcaattt	5160
ctttttttta	aatagagaca	gagtcttgct	atgttgccca	ggctgatctt	gaaatcctgg	5220
gctcaagtga	tcctcccacc	tcggcctccc	aaagtgtctg	gattacaggc	agaaccact	5280
acactcagcg	tgttttgttt	cgttcccttc	ttttcttttt	atttcccttc	tctttctttc	5340
tttctctttc	ctttcttcc	ttctttcttt	tctttctctc	tttctttctc	tttttttttt	5400
ttttttgaga	cagggtctca	ctgtcaccca	ggctggaatg	cagtggcatg	atcttggtc	5460
acagcaacct	ctgctccgg	ggctgaatca	attctcccac	ctcagcctcc	tgagtagcta	5520
ggactatagg	catgcaccac	catgcctggc	taattttttg	tagagatggg	atttctccat	5580
gttgcccagg	ctggtctgaa	actactgggc	tcaagtgatc	tgcccacctc	ggcctcccaa	5640
agtgcctgga	ttacaggcga	gagccaccat	gcctggcctg	tttcttaata	agtaaaatgg	5700
agctaacatt	ggtactacct	tacagggttg	atgtaaagat	gaatgtagct	gttctgtaaa	5760
catgcttagc	acagtaactg	acacccatgg	attcagatat	tgaccaaggc	tcacttggtc	5820
tctgccctca	tgaagcttac	agtatggtag	gggagacagc	gaaaatgcag	taatgatgca	5880
aaaacacatg	cacaaatgtg	cagttaaaat	tgtgggtgag	gccatgaaga	agtaggacgc	5940
tctatgtgtg	cctgtccctc	atcacccatg	tgccttgtct	gtgggttaaag	gtttctttcc	6000
caaaactcaa	attttagctc	ctcaaagatc	aggactttct	gccactgttg	tatccccagg	6060
gtctagtgtg	gttctggcac	attgtaagtg	cttaataaat	gttaactgag	tgaatgaaag	6120
ggccttggga	gagaaccaca	gaggaggacc	aactcagcct	aggagagat	tagaggacac	6180
ctgtgacagg	tgtcatttaa	ccaaggcctg	gagggaaaga	ggggccatgt	ggccatggag	6240
aagctgtgga	gagagttcag	gcatagggag	cagtgcagta	caggcctggt	gcaggcagcc	6300
tgtatcctgg	aggacaggca	gggcccgcgt	gttcaggagg	ggcaccgagg	agaatgctga	6360

ggccggcagg	gcacggaagc	cgtctttttt	tttttttttt	cctaagaaaa	gaaggctggt	6420
ctcaaaactcc	tgggctcagg	tgatcctccc	gcctcggctt	cccagggtgct	gggactacag	6480
gtgtgagcca	ccatgcccgg	ctggcaagga	ggtttaagt	ggattgtgat	ctgctctggt	6540
atggtttttaa	ggagggtcact	ctgaccactg	atggagagaa	gtgggggtgg	gggaaacagg	6600
cgaccagtta	ggaggccatt	actcgtgttc	agtcacaggca	ggcattggtg	aaggctcaga	6660
ggatgtggaa	gtatgagatg	gggagacatg	gtgagatttg	gatctcttct	ggccacagcc	6720
ctggcaagac	tcacagatgg	attagaagcg	gagggagagg	gagaggaagg	ggacaggatg	6780
atgccgctct	agcttgagca	gctgagtggc	tggacagagg	catcagcagc	gaggagggag	6840
cctggagacc	aacagttgag	gctaggacag	gtagagtgga	gggtgccata	aaaaagacag	6900
caaagtactg	ataactgctg	gagtggcatc	cacaccacaga	gcggggaagg	ggcaggatgg	6960
gcagggcctt	ttctctgtcc	cgtcccccaa	gtggccctgg	atacagtcct	gggcagggtc	7020
ctgggactca	gtgacctgcc	cttaccacca	ccccctgcct	ccctatgtgc	tgtagaccag	7080
gatggagcag	agcccagcgc	caattccgtg	tcagcccaca	acctgctccg	gctgcatggc	7140
ttcacggggc	acaaggactg	gatggacaag	tgtgtgtgcc	tattgaccgc	cttttccgag	7200
cgcattgcgtc	gtgtcccggg	ggcgttgccc	gagatggtcc	gcgccctctc	agcccagcag	7260
cagaccctca	agcagggtgg	gggtgagggc	atctgggctg	ggacctcggg	taggagggaa	7320
gttggggctg	cgatggcaga	tggmacagg	gggtggggtt	cctgggctgt	ccccagact	7380
cagggtctgtg	tgtgtgcagg	cacgtggcct	gtcagacagg	gaggcagaag	ttaatatgag	7440
tccgtggtgg	ctgatgaagt	gtttctctgt	acgtcttggg	gtcagtgtaa	ttgcttctgt	7500
ccatactgtg	ttactggtgt	gtgtgtactt	ccgggtgtgt	gtgaccctgg	aggtgtgtgt	7560
ctgtgcacct	acctttgagg	gggatgctgg	tgtgagtgtt	tgtctgtctg	catgtggatg	7620
ccccatctgc	aggtttgcct	ctgtgtctgc	ctgcatgcgt	gtgtgtctgg	tgtttgtgtg	7680
tgtggtatct	gcctctgtgt	gggcatctac	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	7740
tgtgtgtgtg	tgtgactad	ctgtgtctgt	ctgaatgggt	ctctgtgtgc	tctgggtctt	7800
ctgggtgtgt	gtctccccat	gtttgtatct	gtaccattgt	gtatatgtat	gacatttcca	7860
cttcggtatt	ctcatgtgtg	agtgtgtgtg	tgtgttccca	cttgccaagc	attaactcat	7920
cctggcagct	gagatgagtc	cctgttcctt	cttagagata	tacgggtggggc	ggaaggagg	7980
atggggaagc	cctggtgggtc	tagggctcag	ccctccctcc	cctgacacac	cggagtgacc	8040
tttctattcc	ggtcagatcg	tgatctgtgg	agaccgtcag	gccaaggaca	ccaaggccct	8100
ggtgcagtgc	gtccactctg	tctacattcc	taacaaggta	cccatccctg	tgagcccaat	8160
ctgccaccctc	ccagagctga	ccccctccca	tcctcagctc	ctcaacatct	ccttcccctc	8220
agaatgttgg	gaagagggaa	cttcccagtg	ggcctttcta	atgggcagggt	gacccccacc	8280
cggcagggtga	ctctccctgc	tctgctgctg	ccctaggtgc	tgattctggc	tgatggggac	8340
ccctcgagct	tctgtccccg	ccagctgcct	ttcctgagta	ccctcgacg	gttggaagac	8400
caggccactg	catatgtgtg	tgagaatcaa	gcctgctcag	tgcccatcac	tgatccctgc	8460
gaattacgaa	aactactaca	tccatgactg	ccccaaacccc	cttgggggtgg	ggcagaagggt	8520
gaagcatccc	aactgactag	agactcaggc	cctgcagggc	cctatagaac	ctgtggccat	8580
ccctgagcac	cctgccacca	ggtgacctcg	gccatactca	ctgccccctt	tgggcaccca	8640
ctcaccctag	aataaaactta	acagtgtccc	gtggtaa			8677

<210> 1078

<211> 5846

<212> DNA

<213> Homo sapiens

<400> 1078

gctttatatg	agctttttata	tttcacagaa	tggtgacttt	gatatgccc	tggtgcattg	60
tgggagctgc	tattgtcacg	actaagacat	ttcttttggg	gtatccatct	agccccagcc	120
tcgaaaggat	ggaagcaggg	cctccttgca	ggaggctcatg	ttgtccattt	gtctgctttc	180
atacaagctg	gtccaaagaa	agagttctct	ttcgttttgg	acatctgttg	ggttggaagt	240
ccttccccaa	atctatctga	gtccttcttg	ctgcagagaa	agccttccctg	tgacctcatc	300
ctttccccta	aatgttggga	aatgctcctg	agtcctgtcc	ttgacacata	catcttccct	360
gggttgaggg	atggggactg	ggacacatgc	tttggaagg	gcagggtcag	agtgatgggg	420
ctgacggggg	gggggaagca	gggggaggag	ctgtcctct	gaggcctttg	ggaatcggct	480
gtgccaggca	tcctcagccc	tccagctaag	caacacagag	agccaaaaga	ggctactaga	540
gacaagaagg	ccttcatggg	gccactgctt	gtgggggatg	tcagcagtgg	ggaggagtga	600
agcagggaagg	aaccgggaga	ctggatggaa	ttgtccctt	cacacggtca	cacatagcca	660

cacatggtca	ctgggaccag	agtcagctct	gtctgggcag	ccaggccctc	agtgaagcc	720
accagcccat	ctggagggga	ttagtgctcc	ggccaacaag	gtcagctggc	cccttcctag	780
ctggagccta	ctcaaccttg	ccaggaagtc	agagagctgg	acaagtggag	cccagcctgg	840
ggaggtggaa	gagagggagg	atggagcatg	gtgaagcaca	ggtggccttt	ttggcagccc	900
cagccctggc	tttgaacag	tctgggcagt	gtgccaaacc	ctcttgccac	tgtcgtccca	960
ttgaccctca	tgaatgagtt	gcgaggcagt	taccttcagc	ctcctatgga	taaataattcg	1020
aggcccagag	agggtaagag	acctgcctgc	gacccctcag	cacttctggt	tctctctggg	1080
gtcttgaggg	tacaataaag	acccctaagg	cttctctctc	tcgcaggagg	tccaggcgca	1140
gctgtggggg	agggtgccct	tgggtgtcttc	tgtccctgca	gccagtctgc	tttctactcg	1200
gcagtcctct	tctccctcct	gggatgagat	gtgcacgcga	tgatgggatt	ctgtaaatgg	1260
gttggaaga	aggagtacc	tccttaaaag	gttagttctc	ccaggagtgc	tcgaatttct	1320
aaagggggca	gggtcccaca	taaattctcac	tcagaagcag	gattataaga	gttctctcag	1380
catcccttcc	cttttgctgg	tccctcttga	gtgtgcaccc	tgttctacca	gcggaacacc	1440
tgcgggccag	ggtcactgga	gacagggcca	taccgtctgg	gcggtcactt	aagtaattc	1500
atcattctga	gcacccccct	tccttatctg	aaaggtgggg	ggccatccac	ccagctctca	1560
gggctgttaa	ggtgactaaa	tgggataatg	gttgtatcat	ccctgagcaa	aggggtacc	1620
agatgggaag	attatcttag	ctccgcaggg	agccagatgg	gctgtgaggg	aggggtaaag	1680
gcagggctgg	agggggctgg	aggggctggc	tgagcagggg	atatatgggg	ggggttcttc	1740
ctcaaaccaca	gaaaaactct	tagttaggct	tagtgtcttt	gttgagaaac	tgaggcccaa	1800
agaaaggaat	ttcttgctcc	tttgtttccc	tttccctgcc	tgaggtcatt	cattcaccta	1860
acaactttgt	gcccgaact	agacaaggcc	ctagtgaagc	aatgaacatag	ccccctctg	1920
ggaacacaga	gcctagatag	ggagatgac	atttcattac	tgcaaacaca	aacatataat	1980
cccagcctgg	gctaagtgt	gtgaagttcc	agacttgtgt	ctggctcggg	gctgtatcct	2040
aagcaccttg	ggcattaaag	ggcattgaaa	tacttgctgg	aaagaaggcc	actctgagga	2100
ggtgatgtca	gagctgaggg	ttggagggct	ggagttaaat	aaagatgggt	tcagggtcttc	2160
tttgcccttc	ctgtagggtc	tgccctctgc	tcctctctgg	cactcaggct	aagggttaagc	2220
atctccgact	ggccatcagc	cccaacatgc	cgagtacagg	gatcagatcc	tgtcttgctg	2280
ggccggtctc	ccctagggtc	tgaaccagag	gaagtgcag	tggaattcaa	tttatctaga	2340
tgggtgcgtt	gtgcctgccc	tccttttcgg	catgttctag	aacagagttc	agtccagagc	2400
ccagggctgg	ccgggctgat	ggatgagggg	gtggggcctg	ctgaccacca	ggggacctga	2460
tcattgggct	ggccagcct	ctctgtcttc	attttccctc	ctgcaaagaa	gggggtgttg	2520
gcgtccctac	ttctcgcgcc	agccccgggg	cctctatcct	ggcggaagg	gcaggccgac	2580
ccggcagact	gcggcctctc	gggaggggaag	aagggtgtcag	acgcgcggag	caaccataaa	2640
tagccccct	ttcccagaag	acggcacagg	gttcaagact	caggcgccgc	atactcagaa	2700
tgagagcaga	gactcccgcc	aggaaaaaaa	ggcacttagg	ggatctgctc	attagcatga	2760
aatgcaaatg	agcccgcgcc	gcctcattta	cacaactctg	tgcattggatt	cggcgaaagg	2820
tcaaccaggg	agacgacggc	gcagcagcca	ctctgccact	tcccccatcc	cctcccccca	2880
tcggccgggg	cggaactga	gacgacccca	acctctgcg	gtggcgggag	gtgcgcgggg	2940
gctgcgtggg	tggtgcagcc	ttaggagagt	gaacaacgcc	caggggtgat	ggcctcagca	3000
aagtgagggg	tggtgatgga	ggtcatccga	cccatccgc	cgctctccg	cagtggcgca	3060
agcgcgccaa	aatctccgga	gagggaaact	actgaccac	taggttccgc	cgtgtctacc	3120
tctcgcagat	gttggggaag	tgcttcccgg	cgttaaatcc	tcgctgttcc	ccccccacc	3180
ggcgcccagc	acaccgcggg	cgctccgctc	ccgggtaccc	acagctttct	ggagtggcgc	3240
cggcggcagg	agagagctag	agccgactga	gccccagaac	tcggggagggt	aggcggggca	3300
agggccgggg	tctgcgcgtg	cgtgtgcacg	cgtggaaagc	acaaaccac	gagggcccgc	3360
tgccggtagg	gttaagggtga	gtgagtgaag	gcggcagacc	cgcaagttc	cagttccgcg	3420
gacactcctt	ccctaagcca	catagggact	taagagaaac	tgaggcacga	agttgggggg	3480
tgccggtggg	ggggactttg	aaggctcag	cgataaagcc	cagctctgtg	cttccgcccc	3540
ctccacacaca	ctcagacccc	ccacaggttc	cttcttaggg	gtcctcgctc	tgctccgcag	3600
cccctcctgg	ggatccgggc	tctgcgggtc	agcgcgacct	gcctggggcc	acgtgttcaa	3660
gcacgaagcc	cctgcgtgga	gtccacgccc	ttcaaaagg	ccctaggggc	aaagggtatga	3720
agccagggag	ggtcaatgtg	aggtcaggtc	cagcgggtta	gggttacgag	gtcagggtcg	3780
aagtctcaga	attgactcgg	gagtatgacc	aataagccca	agagatttgt	ggaggccacg	3840
cccagaccat	gcctacccta	gcctttctcg	agctccgccc	gtttctccaa	gactggggccc	3900
ctccagcctg	aagccccacc	cccaggacat	ccagctccgc	tccttccctt	ccccagctcc	3960
gcagccaagc	tcaactccag	ggtyggagat	taaccagggt	gagacctggg	atttcgctct	4020
gggacccccct	ggtgacaacc	ctcacccccg	tgcgcctgt	ctcctttctt	ccccaggccc	4080

gcccagagct	gagctccgct	ctccggctgc	tgcccaaate	aggggtcgtg	gacaaaggat	4140
gcctggggcc	tgcgcccta	cgccaggacc	ccgcgccgaa	tactctgatt	cttgggctc	4200
cctccaagg	agtcccaaag	acccaatgg	ccaataggaa	agtgggttcg	gtctgggcag	4260
cagtctgatt	ggctccagcc	ttcgggagcg	gacccagggg	caaggggagg	ggagaggggc	4320
ggtcctgggt	tttgggggtg	gaatcgatt	ccagctgtgg	ttctctccct	gcgctcccgc	4380
ccgcactgcc	acggcggaag	gccaatgggc	gcgcggctcg	gggcccggcg	cgtccggcga	4440
ttggctgcgg	ggctgtctgg	gggcccggcc	gaggcttgaa	gttgaagtga	gggatccagc	4500
tgtggtgtgc	gcggggctcc	tcgccgccgc	tttcgctcgc	tcgctccgcg	tctcggccgg	4560
aggaggaggc	tgtggcgccg	gcgacagcta	cggcagcggc	agccaccgg	gcggctgcgg	4620
cggcggtatc	tccgcctcca	ctcccgcgcg	ggactgcccc	ccactgtctc	cccgcctctc	4680
ccggacagtg	agcccgcggc	ggggcggggg	aaggagccgc	ccccaccccc	tccaagccca	4740
cccctaaaga	gatecctcct	cccctccccc	gccgcctggc	gcggagccgg	gacgatgctg	4800
accccttaga	tccggctcca	gctgcgcgcg	gggaagaggg	ggcgccccctc	cccggacccc	4860
cgccctccgc	cgctgcccc	cttttcgttc	gccctctcgg	ggcggtctcg	ccgaaggtag	4920
cgccgaatcc	ggcaaccgga	gcctggggcg	gaagcgaaga	agccggaaca	aagtgaaggg	4980
gagccggccg	gctggcccgg	gaagccccag	gggcgcaggg	gagcgggac	tcgcgcgggg	5040
cgggggtttc	ctgcgcccg	gcgcgcccg	ggcagcatgc	ccctgcgggc	agggggagct	5100
gggctgaact	ggccctcccg	ggggctcagc	ttgcgcctta	gagcccacca	gatgtgcccc	5160
cgccggggcc	ccggggttgc	gtgaggacac	ctcctctgag	gggcgcgcgt	tgccccctctc	5220
cggatcgccc	ggggccccgg	ctggccagag	gatggacgag	gaggaggatg	gagcgggcgc	5280
cgaggagtgc	ggacagcccc	ggagcttcat	gcggctcaac	gacctgtcgg	gggcccgggg	5340
cggccggggc	cggggtcagc	agaaaaggac	ccgggcagcg	cggactccga	ggcggagggg	5400
ctgccgtacc	cggcgctggc	cccgggtggt	ttcttctat	tgagccagga	cagccgcccg	5460
cggagctggg	gtctccgcac	ggtctgtaac	ccatatcctt	cggggcacga	cggccaggcg	5520
cggggtcaga	agggggacgg	gccgcaccgc	cgggggtcgg	gggggaagaa	gacccaccgc	5580
caggtgagtc	gaagtgaacc	cggagggtag	gcggatgggg	ggggggctgc	cagggagggg	5640
agggggcacc	agagtgggag	cggagacgcg	agcaggtctc	gtcggtaacc	cgggcttacc	5700
ccacctgcgt	acacacacct	cagtcttcc	gggttggggg	ggtggggatc	caggccagga	5760
gaagagagct	gtgccccgct	ggctcgcagc	tggacgccct	ccagatgtgg	tcaggggagg	5820
gtcgtcatcc	tccagatgtg	ggaagc				5846

<210> 1079
 <211> 5848
 <212> DNA
 <213> Homo sapiens

<400> 1079						
gcttttatatg	agctttttata	tttcacagaa	tggtgacttt	gcatatgccc	tggtgcattg	60
tgggagctgc	tattgtcacg	actaagacat	ttcttttggg	gtatccatct	agccccagcc	120
tcgaaaggat	ggaagcaggg	cctccttgca	ggaggatcatg	ttgtccattt	gtctgctttc	180
atacaagctg	gtccaaagaa	agagtctctt	ttcgtttgga	acatctgttg	ggttggaagt	240
ccttcccca	atctatctga	gtccttcttg	ctgcagagaa	agccttctctg	tgacctcatc	300
ctttcccca	aatgtttggga	aatgtctctg	agtcctgtcc	ttgacacata	catcttctctt	360
gggttgaggg	atggggactg	ggacacatgc	tttgggaagg	gcaggtgcag	agtgatgggg	420
ctgacggggg	gggggaagca	gggggaggag	ctgtccctct	gaggcctttg	ggaatcggct	480
gtgccaggca	tcttcagccc	tccagctaag	caacacagag	agccaaaaga	ggctactaga	540
gacaagaagg	ccttcatggg	gccactgctt	gtgggggatg	tcagcagtgg	ggaggagtga	600
agcaggaagg	aaccgggaga	ctggatggaa	ttgtccctt	cacacggtca	cacatagcca	660
cacatgggtca	ctgggaccag	agtcagctct	gtctgggcag	ccaggccctc	agtgaagcc	720
accagcccat	ctggaggggga	ttatgctcc	ggccaacaag	gtcagctggc	cccttctctag	780
ctggagccta	ctcaaccttg	ccaggaagtc	agagagctgg	acaagtggag	ccagcctgg	840
ggaggtggaa	gagaggagg	atggagcatg	gtgaagcaca	ggtggccttt	ttggcagccc	900
cagccctggc	tttggaacag	tctgggcagt	gtgccaaacc	ctcttgccac	tgtctgcccc	960
ttgacctca	tgaatgagtt	gcgaaggcag	ttaccttcag	cctcctatgg	ataaatattc	1020
gaggccca	gagggtgaaga	gacctgcctg	cgacccctca	gcacttctgt	ttctctctgg	1080
ggtcttgagg	gtacaataaa	gacccctaag	gcttctctt	ctcgcaggag	gtccaggcgc	1140
agctgtgggg	gagggtgc	ttggtgtctt	ctgtccctgc	agccagtctg	ctttctactc	1200

ggcagctcct	ctctccctcc	tgggatgaga	tgtgcacgcg	atgatgggat	tctgtaaagt	1260
ggttgggaag	aaggagttac	ctccttaaag	ggttagttct	cccaggagt	ctcgaatttc	1320
taaagggggc	agggtccac	ataaatctca	ctcagaagca	ggattataag	agttcctgca	1380
gcatcccttc	ccctttgctg	gtccctcttg	agtgtgcacc	ctgttctacc	agcggaacac	1440
ctgcgggcca	gggtcactgg	agacagggcc	atacgtctg	ggcagtcact	taagtaactt	1500
catcattctg	agcaccctcc	ttccttatct	gaaaggtggg	gggccatcca	cccagctctc	1560
agggctgtta	aggtgactaa	atgggataat	ggttgatca	tccctgagca	aagggtatca	1620
cagatgggaa	gattatctta	gctccgcagg	gagccagatg	ggctgtgagg	gaggggtaaa	1680
ggcagggctg	gagggggctg	gaggggctgg	ctgagcaggg	tatatatggg	gggggttctt	1740
cctcaaacc	agaaaaactc	ttagttaggc	ttagtgtctt	tgtgagaaa	ctgaggccca	1800
aagaaaggaa	tttcttgtcc	ctttgtttcc	ctttccctgc	ctgaggtcat	tcattcacct	1860
aacaactttg	tggccgacac	tagacaaggc	cctagtgcgc	aaaatgaaca	tagccctctc	1920
gggaacacag	agcctagata	gggagatgat	catttcatta	ctgcaaacac	aaacatataa	1980
tcccagcctg	ggctaagtgc	tgtgaagttc	cagacttgtg	tctggctcgg	tgtgtatcc	2040
taagcacctt	ggcacttaag	tggcattgaa	atacttgctg	gaaagaaggc	cactctgagg	2100
aggtgatgtc	agagctgagg	cttggagggc	tggagttaaa	taaagatggg	ttcaggtctt	2160
ccttgccctc	cctgtagggt	ctgcctctgc	ctcctctctg	gcactcaggg	taagggttaag	2220
catctccgac	tggccatcag	ccccaacatg	ccgagtacag	ggatcagatc	ctgtcttgcg	2280
tggccgggtc	cccctagggtc	ctgaacccag	ggaagtgcac	gtggatctca	atttatctag	2340
atggtgcgtt	tgtgcctgcc	ctcctttcgg	gcatgttcta	gaacagagtt	cagtccagag	2400
cccaggggtg	gcccgggatga	tggatgaggg	tgtggggcct	gctgaccacc	aggggacctg	2460
atcattgggc	tgggcccagcc	tctctgtcct	cattttcccc	tctgcaaaga	aggggtgttg	2520
ggcgctcccta	cttctcgcgc	cagccccggg	gcctctatcc	tggcgggaag	ggcaggccga	2580
cccggcagac	tgcggcctct	cgggagggaa	gaagtgctca	gacgcgcgga	gcaaccataa	2640
atagccccc	tttcccagaa	gacggcacgg	ggttcaagac	tcaggcgccg	catactcaga	2700
atgagagcag	agactccgc	caggaaaaaa	aggcacttag	gggatctgct	cattagcatg	2760
aatgcaa	gagcccgccc	ggcctcattt	acacaaactc	gtgcatggat	tcggcgaaa	2820
ggcaaccagg	gagacgacgg	cgcagcagcc	actctgccac	ttccccatc	ccctcccccc	2880
atcgcccggg	gcgggaactg	agacgacccc	aaccctctgc	ggtggcgggg	ggtgcgcggg	2940
ggctgcgtgg	gtggtgcagc	cttaggagag	tgaacaacgc	ccagggtgga	tggcctcagc	3000
aaagtggagg	gtggtgatgg	aggtcatcg	acccatccc	ccgcctctcc	gcagtggcgc	3060
aagcggccca	aaatctccgg	agagggaaact	gactgaccca	ctaggttccg	ccgtgtctac	3120
ctctcgcaga	tgttggggaa	gtgcttccc	gcgtctaate	ctcgtgttc	ccccctccac	3180
cggcgcccag	cacacccgcg	gcgctccgct	cccgggtacc	cacagcttcc	tggagtggg	3240
ccggcggcag	gagagagcta	gagccgactg	agcccagaa	ctcggggagg	taggcggggc	3300
aagggccggg	gtctgcgcgt	gcgtgtgcac	gcgtggaaag	cacaaaccca	cgagggcccg	3360
ctgccggtag	ggttaagggtg	agtgaagtga	ggcggcagac	ccgcgaagtt	ccagttccgc	3420
ggacactctt	ttccctaagcc	aataggag	ttaaagagaa	ctgaggcacg	aagttggggg	3480
gtggcggtgg	tggggacttt	gaagggtcag	tcgataaagc	ccagctctgt	gcttccgccc	3540
cctccacac	actcgagacc	cccacaggtt	ccttcttagg	ggtcctcgtc	ctgctccgca	3600
gcccctcctg	gggatccggg	ctctgcggtc	cagcgcgacc	tgcctggggc	cagtgttca	3660
agcacgaagc	cctgcgtgg	agtccacgcc	cttcaaaagg	tccctagggg	caaagggatg	3720
aagcccagga	gcgtcaatgt	gaggtcaggt	ccagcgggtt	agggttacga	ggtcagggtc	3780
gaagtctcag	aattgactcg	ggagtatgac	caataagccc	aagagatttg	tggaggccac	3840
gcccagacca	tgcctaact	agcctttctc	gagctccgcc	cgtttctcca	agactggggc	3900
cctccagcct	gaagccccc	ccccaggaca	tccagctccg	ctccttccct	ccccagttcc	3960
cgcagccaag	ctcaactcca	gggtgggaga	ttaaccaggt	ggagacctgg	gatttcgctc	4020
tgggaccccc	tggtgacaac	cctcaccccc	gtgcgcgctg	tctccttct	tccccaggcc	4080
cgcacagagc	tgagctccgt	cctccggctg	ctgcccacaa	caggggtcgt	ggacaaaagga	4140
tgcttggggc	ctgcccgcct	acgccaggac	cccgcgcgca	atactctgat	tcttcgggct	4200
ccctccaaag	gagtcccaaa	gaccccaatg	gccaatagga	aagtgggttc	ggtctgggca	4260
gcagtctgat	tggctccagc	cttcgggagc	ggacccaggg	gcaaggggag	gggaggggg	4320
cggctcctgg	ttttgggtg	ggaatcggat	tccagctgtg	gttctctccc	tgcgctcccg	4380
cccgactgc	cacggcggac	ggccaatggg	cgcgcggctc	ggggccggcg	gcgtccggcg	4440
attggctgcg	gggctgtctg	ggggcggggc	cgaggcttga	agtgaagtg	agggatccag	4500
ctgtggtgtg	cgcggggctc	ctcgcgcgcg	ctttcgtctg	ctcgtccgc	gtctcggccg	4560
gaggaggagg	ctgtggcgcc	ggcgacagct	acggcagcgg	cagccaccgc	ggcggctgcg	4620

gcggcgccat	ctccgcctcc	actcccgc	gggactgccc	cccactgtct	ccccgcccct	4680
cccggacagt	gagcccgcg	cggggcggg	gaaggagccg	ccccacccc	ctccaagccc	4740
accctaaag	agatccctcc	tccctcccc	cgccgcctgg	cgcgagccg	ggacgatgct	4800
gacccttag	atccggctcc	agctgcgcg	cggaagagg	ggcgcccct	ccccggaccc	4860
ccgcccctcc	ccgctgcccc	ccttttcgtt	cgccctcgc	ggcggttc	gccgaaggta	4920
gcgccgaatc	cggcaaccg	agcctggcg	cgaagcgaag	aagccggaac	aaagtgagg	4980
ggagccggcc	ggctggccc	ggaagcccca	ggggcgccg	ggaagcgga	ctcgcccg	5040
gcgggggttc	cctgcgcccc	ggcgccccgc	gggcagcatg	cccctgcgg	cagggggagc	5100
tgggtgaac	tggccctccc	gggggctcag	cctgcgcct	agagcccacc	agatgtgccc	5160
ccgcggggc	ccccgggtg	cgtgaggaca	cctcctctga	ggggcgccgc	ttgccctct	5220
ccgatcgcc	cggggcccc	gctggccaga	ggatggacga	ggaggaggat	ggagcgggcg	5280
ccgaggagtc	gggacagccc	cggagcttca	gcggctcaa	cgacctgtcg	ggggccgggg	5340
gccggccggg	gccgggtca	gcagaaaagg	acccgggcag	cgcgactcc	gaggcgagg	5400
ggctgccgta	cccggcgctg	gccccgggtg	ttttcttcta	cctgagccag	gacagccgcc	5460
cgcgagctg	gtgtctccgc	acggtctgta	acccatatcc	ttcggggcac	gacggccagg	5520
cgcggggtca	gaagggggac	gggcccgcac	gccgggggtc	gggggggaag	aagaccacc	5580
gccaggtgag	tcgaagtga	cccggagggt	aggcggtgg	ggggggggt	gccagggagg	5640
ggagggggca	ccagagtggg	agcgagagcg	cgagcaggtc	tcgtcggtaa	cccgggctta	5700
ccccacctgc	gtacacacac	ctcagtttc	ctgggttggg	gggtgggga	tccaggccag	5760
gagaagagag	ctgtgccccg	ctggctcgca	gctggacgcc	ctccagatgt	ggtcagggga	5820
gggtcgtcat	cctccagatg	tgggaagc				5848

<210> 1080

<211> 6654

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (554)..(554)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (640)..(640)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (650)..(650)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (953)..(953)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1019)..(1019)

<223> n equals a,t,g, or c

<400> 1080

gaaactgtct	tctactgact	gtttcaaaac	cgaggccttc	acatccccgg	aggccctgca	60
gcctgggggg	actgccctgg	cgcctaagaa	gaggagccg	aaaggccggg	caggggcccc	120
tggactctcc	aaaggccccg	tggagaagcg	gccctatctt	ggccccggctc	tgctcctgac	180
tccccgagac	agggccagtg	gcacacaagg	ggccagtgag	gacaactctg	gtggaggagg	240

caagaagcca	aagatggagg	agctgggcct	ggcctcccag	cccccgagg	gcaggccctg	300
ccagccccag	acaagggcac	agaaacagcc	aggccacacc	aactacagca	gctattccaa	360
gcggaagcgc	ctcactcggg	gccggggcaa	gaacaccacc	tcttcaccct	gtaaggggcg	420
tgccaagcga	cgacgacagc	agcaggtgct	gcccctggat	cccgcagagc	ctgaaatccg	480
cctcaagtac	atttcctctt	gcaagcggct	gaagtcagac	agccggaccc	ccgccttctc	540
acccttcgtg	cgngtggag	aagcgagacg	cgttcaccac	catatgcact	gttgtcaact	600
cccctggaga	tgcgcccaag	ccccacagga	agccttcctn	ctctgcatcn	tcttcctcat	660
cctcgtcatc	gttctccttg	gatgcagccg	gggcgtccct	ggccacactc	cctggaggct	720
ccatcctgca	gccgcggccc	tccttgcccc	tctcctccac	gatgcacttg	gggcctgtgg	780
tttccaaggc	cctgagtacc	tcttgccctg	tttgctgcct	ctgccaaaac	ccggccaact	840
tcaaggacct	tggggacctc	tgtggggcct	actaccctga	acactgcctc	cccaaaaaga	900
agccaaaact	caaggagaag	gtgcggcgag	aaggcacctg	tgaggaggcc	tcngctgccg	960
cttgagagaa	cactcaaagg	tcccgaagtgt	gcagctgccg	ccactgccgg	gaagccccnc	1020
caggcctgac	ggcccagctg	accggggcaa	gcaggggcca	ctgcgcacca	gtgcccgggg	1080
cctgtcccg	aggctgcaga	gctgctactg	ctgtgatggc	cgggaggatg	ggggcgagg	1140
ggcagcccg	gtcgcaaaag	gtcgcaaaac	tgagctcagc	aaggaggctc	cggcagagcc	1200
cggcggggag	gcccaggagc	actgggtgca	tgaggcctgt	gccgtgtgga	ccggcggcgt	1260
ctacctggtg	gccgggaagc	tctttgggct	gcaggaggcc	atgaaggtgg	ccgtggacat	1320
ggtaagaggc	cagcccagcc	agggtgggga	gtgtgggggt	ccaaaggaca	ggcaggcagg	1380
cagtcgggga	gccccttggt	tctagtgtta	cagtgtgggc	caaagtgtgc	tgcagtctcg	1440
ggacaatctg	cagagtccctg	agcctctctg	gggtgtgtgg	gggaagtgga	ggcaccctac	1500
tggctaaggc	aggtcacact	cacctaccct	gtcccaggag	acttcccgcc	gggcccgtta	1560
tgcccagcca	cgcgcactct	cccactcacc	tggtcatctc	aggctccagc	cccaccaga	1620
atccactggg	cccctcccca	tgtgttcacc	ggagatgcca	aggcccagag	aacacgagga	1680
ctccaagat	tgaacatcag	ggctgccccg	ggcggtgcaa	gagcaagttg	cccaccctct	1740
gttctgtct	ccattgctc	tgggatgaag	ctaagggtct	aggaagaccc	tctctggcga	1800
cacaggcttg	gtgcatggac	ccagtcacag	ggttccctcc	tctgcaggac	agtccatggg	1860
gtcacacagt	cacaacaggc	agggcggggc	agatccagac	cctctcacca	tgggtctgta	1920
gaccagcttt	ggaagccata	gtcactgagc	accaacatga	gagaggggac	tctggggctg	1980
tgccgccatg	cacctttggg	gctgtgacct	gcccctctgt	tgccctccgtc	ccctcgcccc	2040
taacgtgggt	atgagggtgc	ccatggagga	gggttcggga	gggttaaaag	gtgggcacct	2100
ctgagcccac	cgagcacagc	agccctgtga	tagtcagtgc	agaggggcct	ggtggctctg	2160
gtgacagcag	ggtgacgttc	tctgtggtgt	caccacttcc	ccagtaccat	agagtacctc	2220
tgtgcccttc	tgaggggagg	gtcagtgggg	gcgggtgggt	gcacctctcc	cccggggcca	2280
tgcttctgcc	cccacattca	accccgactc	cactgcctca	tccagacttc	cgtggagtga	2340
cgctcccggc	tctcagcgct	gtgtgggtgg	tctcagtggg	gagcctgca	gccttctctg	2400
gcccctgccc	tgagtcctat	cccctccact	ccttccctca	acccactatg	tgcggttagg	2460
gtcacagggg	agccagaggg	gcttggcagg	ggtctccaga	ggccctggac	aaacactgcc	2520
tgcatctgag	tgattcagtg	acccagcaca	gtggccccag	ccggtggctt	cgcctctccc	2580
cctgcccagc	ctcctcccc	gtcgtgcac	tgcccacctg	ctcctgcag	tacacccttg	2640
cagcccctct	gagcagcccc	tgtcctgac	agttgcctg	gcattgcctg	gcaaaccaca	2700
ggtcccgggtg	ggggcccact	gtgtttgcca	cccacgcctc	ctagtgtgtg	tcttgggcac	2760
ctgcttccca	ctgcccattg	ggatggctgg	agaccttct	cacgcccaga	cgccctgccc	2820
acctcactcc	accctccacc	tcagagggaag	gctggccccg	acaggactcc	tgagggttcc	2880
tggtgccgg	ggccttgctt	acccagcaga	tgggtgcctt	gggcctcttc	cctctcccct	2940
tcccagttag	tgattttttg	cctctctcct	gctttctgtc	tctctctgtc	tctctctctc	3000
tctctctctc	tctctctctc	tctctctctc	tctctcatta	ctggctcctt	cccagcgctt	3060
tgaacaggt	tcaagtctct	cccgatcatc	aaaaataata	accctcagat	caccagcccc	3120
agctggctgc	cacctcccct	gcttcacagc	ccatttccctg	aaagccttgt	ccccacggca	3180
tctcggtcc	cgcagcctca	ccaggggctc	ccgacactc	acgtcccacc	aggctgagat	3240
caggtcgtct	ccacatcccc	tgccagccagc	actggccggc	cgaaggagg	aggggtcagc	3300
cccagacacc	gaccacccca	tctgtccct	ggcccatggg	tgtcttaacc	gcccattgcac	3360
acacaaggctc	ctgctggact	gaggagacag	tgtgtgttgg	agaggcgcta	gcttccctac	3420
accacgcggg	ggctggaact	tgccagccca	gcccattgct	gtctgctgtg	ccatgctcca	3480
gaaatggcct	gacagcctgc	gcaactaggg	ctgccccggg	aaggctcgaa	ccaggaacac	3540
cctgccagac	agatgggaca	tcctgggaga	atgggcagag	tctggggctt	cccagggtca	3600
cttttggtctc	accaccctt	cctgctcag	tggcttgggg	gcgcatgtct	ccttggagtg	3660

agaccctggt	tcaaatccca	gctctgccga	gggctgggtc	catagctcca	ggcgagtcac	3720
gcatgtctctg	agaactccac	aatgtcaaac	cccgttagca	ggattgtggg	gttctgtgga	3780
tcatgtggga	cctgcctggc	atgtggaagg	ggcttggggg	gcagctgtgt	ccctggccc	3840
agcactgcca	caccctcgg	taccttgacc	tacttttgc	gctctggagg	gcagaacctc	3900
tgagccagct	ctcagggata	ccttttttcc	togatggcct	tttctgggaa	ctgccctcgc	3960
ctgctatctc	tgagccctgc	ctgcccttcc	cccaaagcca	tcatagaccc	ctacctccta	4020
tccagatgga	gcctggccat	ggaatgcttg	gggtgagagg	gacccatagc	gggctccggg	4080
cattgttagg	gggctagggtg	gtgtctgcag	aggccccacc	tgtggcaggg	tttacctgcc	4140
gccacccctg	ccctcctctt	gggtagcttg	ggtcagaagg	gcctgaggcc	tactctctc	4200
tgcactcttag	tttcttcaca	tctaaaatgc	tattcatatg	cctgcctgag	gtgggttggg	4260
gcctccgtgc	agtaagtgga	gagaagcctt	cagccagagg	acccccatat	gcttaaacat	4320
ccagacacca	agggccactc	acagacagca	gccggcttgt	gtttcgtcat	cccttttggg	4380
tcaggaactg	gggacgctgg	actccagatc	tccaggaggc	catcccagac	taggcgggaa	4440
ggaggcctca	gccctgagct	gaaaacctga	aattctagaa	taaaccaccag	gccccactcc	4500
cagcatgggc	agcggggagg	ggagtgttct	gacatttctc	agctgctgtg	gttgggatgg	4560
tgcgccacc	ctgagcatgt	gggtcctgt	gggcccctac	tccagcctgg	aggcagctgc	4620
agggttcaga	gaccagcctg	gagccctcgg	gcaggttact	cagcctagc	tctcattggt	4680
aaccaggta	aaataacagt	aatcccatca	taaggttgct	gtgggcatga	ggcttccagc	4740
catgcctggc	acataggaag	ctattgtcgt	ttgtttcact	ggcttcgcac	ttgggcagag	4800
gccgccgccc	tctctgctgc	cttctctacc	tcaccccccg	cccccagcac	ggtggcactg	4860
tggctctggc	gcctgggtgac	ttctccctcc	ccggcctcag	gtttgtctca	ctcttccaag	4920
ggccttcttg	gtgtgactgt	cctgtcctgg	ccacgtccac	tccaagcagc	tgttccaggt	4980
gtggggcagc	ccccaaagtc	agcagaggac	agttttgaga	cttagaggag	gacggcatca	5040
gatttacatg	aagtcagcca	tctcaaggga	ttaccacgtc	accgcctcct	ctcacaggtc	5100
tgagagctgg	tcccctggag	ggtgcaggtc	tcatcctagg	tagaacagtc	ccagcctagc	5160
ttcaaagtgc	tctgtctgcc	agaaagggta	gaaaaccatg	ctgaatgcct	tactgttgcc	5220
ctggaatggg	agcctcagtt	tcaccatctg	taaagtgaga	ttaatgaaag	ggaccacacg	5280
agggtctgta	gagccagtag	gcggccaggc	gcggtggctc	acgcctgtaa	tcccagcact	5340
ttgggaggct	gaggtgggag	gatcacgagg	tcaggagatc	gagaccatcc	tggctaacac	5400
ggagaaaccc	cgtctctact	aaaaatacaa	aaaattagcc	tggcgtggtg	gcgggcacct	5460
gtatgccag	gtctaggga	ggctgaggca	ggagatggc	gtgaaccggg	gaggcggagc	5520
ttgcagttag	ccaagattgt	gccactgctc	tctagcctgg	gcaacagagc	aagactccat	5580
ctcaaaagca	aaagaaaaaa	gagccagtag	gccaggcgct	atgtcttaca	cctgtaatcc	5640
cagcactttg	ggaggcctag	gcaggcagat	cacctgagg	cgagggttcg	agaccagcct	5700
ggccgacaca	gtgaaactcc	gtctctacta	aaaatacaaa	aattagctgg	gcatggcagc	5760
acatgcctgt	aatcccagct	actcgggagg	ctaaggcagg	agaatcactt	gaacacagga	5820
ggcagcgggt	gccgtgagcg	gagatcacac	cattgcactc	cagccccggg	gggacagagt	5880
gaaattctgt	ctcaaaaaaa	aaaaaaaaaa	aaaaaagcaa	gccagtgggc	aaggacacac	5940
accacgcca	gcacaccaga	agcatgcagc	agatgctggc	tggtagccac	agccatggta	6000
gtaactggca	tactggccc	aagggggtct	ccctacccaa	tgtaccagcc	cagagggtgc	6060
taaatgaccc	atgtttgtgg	gcatgtgtac	ccagtgtctg	aacctccttc	tggtagattt	6120
tcaagacca	ttttggagaa	gggaggcagg	gaccacaggg	ggccagccag	cctgtacagg	6180
ttttttgtgt	tttttttgtt	tgtttgtttg	tttgtttttt	gaggcagggt	ctcactcttg	6240
cccaggctgg	agtacaggca	gtggcgctcat	ctcggctcac	tgagcctca	acctcccagg	6300
ctgcagcaat	cctcccacct	cacttctctg	agtagctggg	actacaggca	cacaccacca	6360
accctcacta	ttttttgtag	agacagtttc	accatgttgc	ccaggctggt	atcaaaactcc	6420
tggactcagg	cgatcctccc	accttggcct	cccagagtgc	tgggattaca	ggcatgagcc	6480
actgcacctg	gcctaccagc	ctgtaaagct	tgagggtctg	gctccaactg	gagatcacc	6540
tgcctttcct	ttctcttcat	cagatgtgtt	ccagctgcca	agaagccggg	gccaccattg	6600
ggtgctgcca	caaaggatgc	ctccacacct	accactaccc	gtgtgccagc	gatg	6654

<210> 1081
 <211> 6650
 <212> DNA
 <213> Homo sapiens

<400> 1081

gaaactgtct	tctactgact	gttcaaaac	cgaggccttc	acatccccgg	aggccctgca	60
gcctgggggg	actgccctgg	cgcctaagaa	gaggagccgg	aaaggccggg	caggggcccc	120
tggactctcc	aaaggcccg	tggagaagcg	gccctatctt	ggcccggctc	tgctcctgac	180
tccccgagac	agggccagt	gcacacaagg	ggccagttag	gacaactctg	gggaggagg	240
caagaagcca	aagatggagg	agctgggcct	ggcctcccg	ccccggagg	gcaggccctg	300
ccagccccag	acaagggcac	agaaacagcc	aggccacacc	aactacagca	gctattccaa	360
gcggaagcgc	ctcactcggg	gccggggcaa	gaacaccacc	tcttcaccct	gtaaggggcg	420
tgccaagcga	cgacgacagc	agcaggtgct	gcccttgat	cccgcagagc	ctgaaatccg	480
cctcaagtac	atttcctctt	gcaagcggct	gaggtcagac	agccggaccc	ccgccttctc	540
acccttcgtg	cgggtggaga	agcgagacgc	gttcaccacc	atatgcactg	ttgtcaactc	600
ccctggagat	gcgccaagc	cccacaggaa	gccttctctc	tctgctctct	cttctctctc	660
ctcgtcctcg	ttctccttgg	atgcagccgg	ggcctccctg	gccacactcc	ctggaggctc	720
catcctgcag	ccgcggccct	ccttgccccct	ctcctccacg	atgcacttgg	ggcctgtggt	780
ttccaaggcc	ctgagtacct	cctgccttgt	ttgtgtgctc	tgccaaaacc	cggccaaactt	840
caaggacctt	ggggacctct	gtggggcccta	ctaccctgaa	caactgcctcc	ccaaaaagaa	900
gccaaaactc	aaggagaagg	tgcgggcaga	aggcactgt	gaggaggcct	cgctgcgcgt	960
tgagagaaca	ctcaaaggtc	ccgagtgtgc	agctgccgcc	actgccggga	agccccccag	1020
gcctgacggc	ccagctgacc	cggccaagca	ggggccactg	gcaccagtgc	cccggggcct	1080
gtcccggagg	ctgcagagct	gctactgctg	tgatggccgg	gaggatgggg	gcgaggaggc	1140
agccccagcc	gacaagggtc	gcaaacatga	gtgcagcaag	gaggctccgg	cagagcccg	1200
cggggaggcc	caggagcact	gggtgcatga	ggcctgtgcc	gtgtggaccg	gcggcgtcta	1260
cctggtggcc	gggaagctct	ttgggctgca	ggaggccatg	aagggtggccg	tgacatggt	1320
aagaggccag	cccagccagg	gtggggagtg	tggggttcca	aaggacaggc	aggcaggcag	1380
tcggggagcc	ccttgtttct	agtgtctacg	tgtgggcaaa	atgtgtctgc	agtctcggga	1440
caatctgcag	agtcttgagc	ctctctgggg	tgtgtgggg	aagtggaggc	acccatctgg	1500
ctaaggcagg	tcacactcac	ctaccctgtc	ccaggagact	tcccggccgg	gcccgtatgc	1560
ccagccaccg	ccactctccc	actcacctgg	catcttcagg	ctccagcccc	accagaatc	1620
caactggccc	ctccccatgc	tgtcacccga	gatgccaagg	cccagagaac	acgaggactc	1680
ccaagattga	acatcagggc	tgccccgggc	ggtgcaagag	caagttgccc	accctctggt	1740
cctgtctcca	ttgcctctgg	gatgaagcta	agggctcagg	aagaccctct	ctggcgacac	1800
aggcttggtg	gctgacccca	gtcacagggt	tctccctct	gcaggacagt	ccatgtcggtc	1860
acacagtcac	aacaggcagg	gcggggcaga	tccagaccct	ctcaccattg	gctctgagac	1920
cagcttttga	agccatagtc	actgagcacc	aacatgagag	agggaaactct	ggggctgtgc	1980
gccatgcacc	tttggggctg	tgacctgccc	tctctgtgcc	tccgtccct	cgccccaaac	2040
gtgggtatga	gggtgcccct	ggaggagggg	tcgggagggg	taaaagggtg	gcacctctga	2100
gcccaccgag	cacagcagcc	ctgtgatagt	cagtgcagag	gggcctggtg	gctctggtga	2160
cagcagggtg	acgttcttct	tggtgtcacc	acttccccag	taccatagag	tacctctgtg	2220
cccttctgag	ggagggttca	gtggggcgcg	tgggggtcac	ctctcccccg	gggcatgct	2280
tctgccccca	cattcaacc	cgactccact	gcctcatcca	gacttccgtg	gagtgcgct	2340
cccggctctc	agcgtgtgt	ggtggctctc	agtggggacg	cctgcagcct	tctctggccc	2400
ctgccctgag	tcccatcccc	tccactcctt	ccttcaacc	actatgtgcg	gctgaggcca	2460
caggggagcc	agaggggctt	ggcaggggtc	tccagaggcc	ctggacaaaac	actgctgca	2520
tctgagtgat	tcagtgaccc	agcacagtgg	ccccagccgg	tggtctcgcc	cctccccctg	2580
cccagcctcc	tccccgctcg	ctgcactgcc	cacctgtccc	tcgcagtaca	cccctgcagc	2640
ccctctgagc	agccccgtct	cctgacagtt	gcggtggcat	tgccctggcca	aaccaaggct	2700
ccggtggggg	cccactgtgt	ttgccaccca	cgccctctag	tgtgtgtctt	gggcacctgc	2760
ttcccactgc	ccatggggat	ggctggagac	cttctccacg	cccagacgcc	ctgcccacct	2820
cactccaccc	tccacctcag	aggaaggctg	gccccgacag	gactcctgca	ggttctctggt	2880
gccgcggggc	ttgcttacc	agcagatggg	ggccttgggc	ctcttccctct	cccccttccc	2940
agttagtgat	tttttgctct	tctcctgctt	tctgtctctc	tctgtctctc	tctctctctc	3000
tctctctctc	tctctctctc	tctctctctc	tcattactgg	ctccttccca	gcgccttgaa	3060
acaggttcaa	gtctctcccc	tcataaaaaa	ataataacc	tcagatcacc	agccccagct	3120
ggctgccacc	tccctgtctt	cacagcccca	ttcctgaaag	ccttgtcccc	acggcatacct	3180
cggctcccgca	gcctcaccag	gggctccccg	acactcacgt	cccaccaggc	tgagatcagg	3240
tcgtctccac	atccccctga	gccagcactg	gcccggccga	gggaggaggg	gtcagccccg	3300
agcaccgacc	accccatcct	gtccctggcc	catgggtgtc	ttaacgccc	atgcacacac	3360
aaggctcctgc	tggactgagg	agacagtgtg	tgttggagag	gcgctagctt	ccctacacca	3420

cgcggggggt	ggaacttgcc	agcccagccc	atgcctgtct	gctgtgccat	gctccagaaa	3480
tggcctgaca	gcctgcgcaa	ctagggctgc	cccgggaagg	tcggaaccag	gaacaccctg	3540
ccagacagat	gggacatcct	gggagaatgg	gcagagtctg	gggcttccca	gggtcacttt	3600
tggctcacca	ccccttcctg	cctcagtggc	ttggggggcg	catgtctcct	ggagtggagac	3660
cctggttcaa	atcccagctc	tgccgagggc	tggttccata	gctccaggcg	agtcacgcat	3720
gctctgagaa	ctccacaatg	tcaaaccctg	ttagcaggat	tgtgggggtt	tgtggatcat	3780
gtgggacctg	cctggcatgt	ggaaggggct	tgggggtgcg	ctgtgtccct	ggccccagca	3840
ctgccacacc	cctcgggtacc	ttgacctcac	ttttgcgctc	tggagggcag	aacctctgag	3900
ccagctctca	gggatacctt	ttttcctcga	tggccttttc	tgggaactgc	cctcgcctgc	3960
tatctctgag	ccctgcctgc	ccttccccca	aagccatcat	agacccttac	ctcctatcca	4020
gatggagcct	ggccatggaa	tgcttggggg	gagagggacc	catagcgggc	tccgggcatt	4080
gttagggggc	taggtgggtg	ctgcagaggc	cccacctgtg	gcagggttta	catgccgcca	4140
cccctgccct	cctcttgggt	agctgggggt	agaagggcct	gaggcctcac	tctctctgca	4200
tcttagtttc	ttcacatcta	aaatgctatt	catatgcctg	cctgaggggt	gttggggcct	4260
ccgtgcagta	agtggagaga	agccttcagc	cagaggaccc	ccatatgctt	aaacatccag	4320
acaccaaggg	ccactcacag	acagcagccg	gcttgtgttt	cgctatccct	tttgggtcag	4380
gaactgggga	cgctggactc	cagatctcca	ggaggccatc	ccagactagg	cgggaaggag	4440
gcctcagccc	tgagctgaaa	acctgaaatt	ctagaataaa	ccccaggccc	caactccagc	4500
atgggcagcg	gggaggggag	tgttctgaca	tttctcagct	gctgtgggtg	ggatgggtgc	4560
cccaccctga	gcatgtgggg	tcctgtgggg	ccctactcca	gcctggaggc	agctgcaggg	4620
gtcagagacc	agcctggagc	cctcgggcag	gttactcagc	ctcagctctc	attggtaacc	4680
caggtaaaat	aacagtaatc	ccatcataag	gttgcctgtg	gcatgaggct	tccagccatg	4740
cctggcacat	aggaagctat	tgtcgtttgt	ttcactggct	tcgcacttgg	gcagaggccg	4800
ccgcctcttc	tcgtgccttc	tctacctcac	ccccgcctcc	cagcacgggt	gcactgtggc	4860
tctggcgctc	ggtgacttct	ccctccccgg	cctcaggttt	gcttcaactc	tccaagggcc	4920
ttcttgggtg	gactgtcctg	tcctggccac	gtccactcca	agcagctggg	ccagggtgtg	4980
ggcagccccc	aagctcagca	gaggacagtt	ttgagactta	gaggaggacg	gcatcagatt	5040
tacatgaagt	cagccatctc	aagggattac	cacgtcaccc	cctcctctca	cagggtctgag	5100
agctggtccc	ctggaggggt	cagggtctcat	cctaggtaga	acagtcccag	cctagcttca	5160
aagtgtcctc	gctgccagaa	agggtagaaa	accatgtctg	atgccttcac	tgtgctctgg	5220
aatgggagcc	tcagtgtcac	catctgttaa	gtgagattaa	tgaaaggggc	ccacagaggg	5280
ctgttagagc	cagtaggcgg	ccaggcgctg	tggtctacgc	ctgtaatccc	agcacttttg	5340
gaggctgagg	tgggcggatc	acgaggtcag	gagatcgaga	ccatcctggc	taacacggag	5400
aaaccccgct	tctactaaa	atacaaaaaa	ttagcctggc	gtgggtggcg	gcacctgtag	5460
tcccagctac	tggggaggct	gaggcaggag	aatggcgtga	acccggggag	cggagcttgc	5520
agttagccaa	gattgtgcca	ctgctctcta	gcctgggcaa	cagagcaaga	ctccatctca	5580
aaagcaaaa	aaaaaagagc	cagtaggcca	ggcgctatgt	cttacaccg	taatcccagc	5640
actttggggg	gcctaggcag	gcagatcacc	tgaggtcggg	agttcgagac	cagcctggcc	5700
gacacagtga	aactccgtct	ctactaaaaa	tacaaaaatt	agctgggcat	ggcagcacat	5760
gcctgtaatc	ccagctactc	gggaggctaa	ggcaggagaa	tcacttgaac	acaggaggca	5820
gcggttgccg	tgagcggaga	tcacaccatt	gcactccagc	cccgggggga	cagagtgaaa	5880
ttctgtctca	aaaaaaaaaa	aaaaaaaaaa	aagcaagcca	gtggggcaagg	acacacacca	5940
cgcccagcac	accagaagca	tgcagcagat	gctggctggt	agccacagcc	atggtagtaa	6000
ctggcatcac	tggcccaagg	gggtctccct	acccaatgta	ccgcccaga	gggtgctaaa	6060
tgacctatgt	ttgtgggcat	gtgtacccca	gtgctgaacc	tccttctggt	agattttcaa	6120
gcaccatttt	ggagaaggga	ggcagggacc	acagggggcc	agccagcctg	tacaggtttt	6180
ttgtgttttt	tttgttttgt	tgtttgtttg	ttttttgagg	cagggtctca	ctcttgccca	6240
ggctggagta	caggcagtgg	cgctatctcg	gctcactgca	gcctcaacct	cccaggctgc	6300
agcaatcctc	ccacctcacc	ttcctgagta	gctgggacta	caggcacaca	ccaccaaccc	6360
tcactatttt	ttgtagagac	agtttcacca	tgttgccag	gctggtatca	aactcctgga	6420
ctcaggcgat	cctcccaact	tggcctccca	gagtgtctgg	attacaggga	tgagccactg	6480
cacctggcct	accagcctgt	aaagcttgag	ggctgggctc	caactggaga	ctcactgccc	6540
tttcctttct	cttcatcaga	tgtgttccag	ctgccaaaga	gccggggcca	ccattgggtg	6600
ctgccacaaa	ggatgcctcc	acacctacca	ctaccctgtg	gccagcgatg		6650

<210> 1082

<211> 460

<212> DNA
<213> Homo sapiens

<400> 1082
aggctggagt gcagtgggtgc gatcttggct cactgcaacc tccgcctccc gagttcaagc 60
gattctcctg cctcagcctc tcaagtagct gggactacag gcgtgcacca ccacgctcag 120
ctaatttttg tatttttttg agagatggg tttcaagct ttggacagga tggctccat 180
ctcttgacct cgtgatccgc ccgcctcagc tgcctaaagt gctgggatta caggcgtgag 240
ccactgtgcc cggcccctag tagcgttttt aatgtgtggt cttgagcaag ttggttgata 300
cctctgcaca cagtttccct acctgtatga tggagatgat aatagcccct tctctgcaga 360
gctgctggga ggagagtga ataatgaaca ctaccacac ggtgctgcct cagtcctatt 420
ttgggtccag cctctgtgac ctctccccc acggtgctgc 460

<210> 1083
<211> 400
<212> DNA
<213> Homo sapiens

<400> 1083
accctcttca agaggatgtc ttctcccaag aaagccaagc ccaccaaggg caatggcgag 60
cctgccacaa agctcccacc cccggagacc cccgatgcct gcctcaagct cgcctctcgg 120
gcagccttcc agggggccat gaagaccaag gtgctgccac cccggaaggg ccggggcctg 180
aagctggaag ccacgtgtga gaagatcacc tgcgccagcc tcaagaagtt cgcattgtaa 240
gcgccagggg cctctccttg taatcctctg agcccatccc tttccgacaa agaccgtggg 300
ctcaagggtg ctgggggcag cccagtgggg gtggaagaag gcctggtaaa tgtgggcacc 360
gggcagaagc tcccaacttc tggggctgat ccgttatgca 400

<210> 1084
<211> 400
<212> DNA
<213> Homo sapiens

<400> 1084
accctcttca agaggatgtc ttctcccaag aaagccaagc ccaccaaggg caatggcgag 60
cctgccacaa agctcccacc cccggagacc cccgatgcct gcctcaagct cgcctctcgg 120
gcagccttcc agggggccat gaagaccaag gtgctgccac cccggaaggg ccggggcctg 180
aagctggaag ccacgtgtga gaagatcacc tgcgccagcc tcaagaagtt cgcattgtaa 240
gcgccagggg cctctccttg taatcctctg agcccatccc tttccgacaa agaccgtggg 300
ctcaagggtg ctgggggcag cccagtgggg gtggaagaag gcctggtaaa tgtgggcacc 360
gggcagaagc tcccaacttc tggggctgat ccgttatgca 400

<210> 1085
<211> 460
<212> DNA
<213> Homo sapiens

<400> 1085
aggctggagt gcagtgggtgc gatcttggct cactgcaacc tccgcctccc gagttcaagc 60
gattctcctg cctcagcctc tcaagtagct gggactacag gcgtgcacca ccacgctcag 120
ctaatttttg tatttttttg agagatggg tttcactgct ttggacagga tggctccat 180
ctcttgacct cgtgatccgc ccgcctcagc tgcctaaagt gctgggatta caggcgtgag 240
ccactgtgcc cggcccctag tagcgttttt aatgtgtggt cttgagcaag ttggttgata 300
cctctgcaca cagtttccct acctgtatga tggagatgat aatagcccct tctctgcaga 360
gctgctggga ggagagtga ataatgaaca ctaccacac ggtgctgcct cagtcctatt 420
ttgggtccag cctctgtgac ctctccccc acggtgctgc 460

<210> 1086

<211> 1122
 <212> DNA
 <213> Homo sapiens

<400> 1086
 ccagggccca gcatcagaag ccggccggtt tgatagacgt gttccctctg cgtccttgca 60
 gccttccatc tgtgctacct cccaggaagc cgaaggccgc agagtccctt tcggatggca 120
 ctgggagcag gaaaatgagg tgattatggg ctgctgctcc aagaagtatt ggcagctgtt 180
 gctggggcgg ctccctgggg tgcatccct ttcttgctct tgtggatggg aaccagagca 240
 cccacttca aagactctgt aagccagggc ttaccagaga aagctgaaga gtctagggcc 300
 aattttaatc agtttcttgt gcttctcatg ccaaaagaga tgattgtcct cactatagtt 360
 catcctatag tgcggcgggc ctgactcgct actgccctct aatgttctgg gagggaagct 420
 gttgggtctt tcctacctaa tctggtagaa atgttagaac agaggctaata ttggggaaat 480
 aaatctctca atttttttga gttgctttgt gtgtgtgctg gcgcgcgtgt gtgtgtgtaa 540
 ggggcagggt ctctaagaaa gaaagaaaag gaggcgagag gaggaagaa cctgtttcag 600
 tttcccaggc tctggcaagg tgactgagga agcgccaagc cccttagcct ctttgggctc 660
 tggttacctc atcagtaaca ttagaagggt ttatacatga tttatccttt tttattcagc 720
 tcttatagtc tataaatctc cagtaagttg tggaaataaa ctgtctttta aaaatcttta 780
 aaaaaccatt ttccggccgg gcgcggtggc tcacgcctat aatcccaga ctttgggagg 840
 ccgaggcggg tggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 900
 cccgtctcta ctaaaaatac aaaacattag ccgggcgtag tggcgggcgc ctgtagtccc 960
 agctacttgg gaggtgagg caggagaatg gcgtgaaccg gggaggcgga gcttgcaagt 1020
 agccgagatc ccgccaatgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 1080
 aaaaacaaaa caaacaaaaa aacaaaaaaa acaaaaaaaa aa 1122

<210> 1087
 <211> 1120
 <212> DNA
 <213> Homo sapiens

<400> 1087
 ccagggccca gcatcagaag ccggccggtt tgatagacgt gttccctctg cgtccttgca 60
 gccttccatc tgtgctacct cccaggaagc cgaaggccgc agagtccctt tcggatggca 120
 ctgggagcag gaaaatgagg tgattatggg ctgctgctcc aagaagtatt ggcagctgtt 180
 gctggggcgg ctccctgggg tgcatccct ttcttgctct tgtggatggg aaccagagca 240
 cccacttca aagactctgt aagccagggc ttaccagaga aagctgaaga gtctagggcc 300
 aattttaatc agtttcttgt gcttctcatg ccaaaagaga tgattgtcct cactatagtt 360
 catcctatag tgcggcgggc ctgactcgct actgccctct aatgttctgg gagagaagct 420
 gttgggtctt tcctacctaa tctggtagaa atgttagaac agaggctaata ttggggaaat 480
 aaatctctca atttttttga gttgctttgt gtgtgtgctg gcgcgcgtgt gtgtgtgtaa 540
 ggggcagggt ctctaagaaa gaaagaaaag gaggcgagag gaggaagaa cctgtttcag 600
 tttcacaggc tctggcaagg tgactgagga agcgccaagc cccttagcct ctttgggctc 660
 tggttacctc atcagtaaca ttagaagggt ttatacatga tttatccttt tttattcagc 720
 tcttatagtc tataaatctc cagtaagttg tggaaataaa ctgtctttta aaaatcttta 780
 aaaaaccatt ttccggccgg gcgcggtggc tcacgcctgt aatcccagca ctttgggagg 840
 ccgaggcagg tggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 900
 cccgtctcta ctaaaaatac aaacattagc cgggcgtagt ggccggcgcc tgtagtccca 960
 gctacttggg aggtgaggc aggagaatgg cgtgaaccgc ggaggcgag cttgcaagtga 1020
 gccgagatcc ccgccaatgc ctccagcctg ggcgacagag cgagactccg tctcaaaaaa 1080
 aaaacaaaac aaacaaaac aaaaaaaaaa aaaaaaaaaa 1120

<210> 1088
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 1088

atgatttttta	aacagatttg	gcacaggagt	gcctttctgg	gtttagggaa	gtgggtggaca	60
aggcaggaga	gaaccacatt	catcttctcc	tctgtgttt	gtcttctgtc	tttcaataac	120
gtccatgaac	tgtgaggtta	gtgtcttggc	tgagagataa	gtatggcttg	gcattgattc	180
ttctgttgtt	acctcaagct	gttttctagt	ccccaagaac	agcactctca	gtgggtgtgg	240
aagtgggagg	gacatgaagc	aatgggttta	cattgcattg	cctggctaca	gcttggcatt	300
tctttccttt	ttctttttct	ttgcgtcatt	gccattgggtg	ccactaattt	tgcttcccct	360
ctcttttata	acttgtttct	tcgggagttg	cctagagtct	ctgcattata	tcttatttgg	420
tattgaggca	gtgtgttctt	ggccaataac	ctaggagatg	atatctgttc	atcttacagg	480
tttagtgctg	gaggaattca	ttaaaaaa	taataaaa			518

<210> 1089

<211> 3598

<212> DNA

<213> Homo sapiens

<400> 1089

atggggcggc	cctggccaga	agcggaggag	gtggcaccgc	ggaccgagct	ggggtcttgg	60
aggaagagag	ggtgagggga	atacagtact	gggggtgaga	gaaggggttg	acagaagagg	120
gtcgggtatc	tgggcatgcy	cagggccgca	ggactcttgg	tggggtagcg	agggggacgg	180
tcccacgact	gctccgaagg	gccgggactc	ccagtggggg	cgggaccccc	ggagtgcctg	240
cctgcggact	cccaagcctg	gagcctgggg	agaggggtgg	cacctccgtt	cccgcacacc	300
cgtccatggt	gtgtgcgccc	agcgtccagg	agccacggcg	gtgtcttctt	tgcgcgctct	360
ttacacgtgt	gggggtaggg	tgctcctcgg	ggctgagccg	tggccagggt	tatggagagg	420
ccgcctctc	cccagatggc	gtcgtcgagc	cctgactccc	catgttctct	cgactgcctt	480
gtctccgtgc	ccccggcctc	agccatcccg	gctgtgatct	ttgccaagaa	ctcgagccga	540
ccccgggacg	aggtgcagga	ggtgggtgtt	gtccccgcag	gcactcacac	tcctggggagc	600
cggctccagg	tgggttagac	tttatggggg	gctgggaggt	gtggcagatc	tctgcattct	660
tttaagacct	tcttccctgc	tccccacacc	tgggaggctg	ccagaagtag	tggaagagca	720
tgagctttag	gtctaccaac	ctggacctga	gctcattatg	tagcctcagt	ctacctcagt	780
ttcctcttct	gtaaaatggg	aatgagacct	tctcctaaag	gatctataag	gtaattggca	840
gagtgccaca	gtccccctca	cgccccctca	tgagtggacg	cttctcttct	cctccctcac	900
ctccagtgc	cctacattga	agtggaaacg	gtgtcgaaag	cgcacgctgt	gattctgagc	960
cgtccttctt	ggctatgggg	ggctgagatg	ggcgccaacg	agcatgggtg	ctgcattggc	1020
aacgaggctg	tgtggacgaa	ggagccagtt	ggggaggggg	aagccctgct	gggcatggac	1080
ctactcaggt	gcagaccctg	cccttccctca	tctgcctgac	acaccagaaa	tctaggggct	1140
gagttttgac	ctgggccccat	ccatccctcc	cccagcctgg	ttcacagggg	cctcctcctc	1200
tctgcagact	ttgcccttgt	gccttctgtg	agaaggctgc	agcagcagcc	acctttgggc	1260
ctctcctggc	ccagaaatag	agcagtgggt	atttatttat	tttcagttga	aatcttacat	1320
agagtcccaa	tttataaaac	cagtaaatag	ggatggagca	gcttgggtg	gagagaggtt	1380
aggggctcag	gacacttctc	tctctgaaac	tgtgtttcag	gccttttcat	ggaaccctca	1440
aagcatagca	catggaacca	gagcattgaa	agccactggc	ataattgcat	ttgatacgat	1500
cagtgcacgc	agatttgctg	tgtgacttgg	gcctatcacc	aaacctctcc	gggctctctc	1560
tgtcccctgg	agcttctgcc	accagccatt	gatccctctg	tcaccttctt	gtccccttggc	1620
cctctctttt	gccaggctgg	ctttggaacg	gagcagctct	gcccaggagg	ccttgcattg	1680
gatcacaggg	ttactggagc	actatgggca	ggggggcaac	tgccctggagg	atgctgcgcc	1740
attctcctac	catagcacct	tcctgctggc	tgaccgcaac	gaggcgtggg	tgctggagac	1800
agctgggagg	ctctgggctg	cacagaggat	ccagggtgag	gtgttccctt	tctcccagct	1860
ttgggaagtg	ggagagatgg	taggggcagg	gaggggcccg	atccagggtc	aagcctgtca	1920
ggacatccag	ggagatggga	gatgagccca	cttgggaatt	ctcctccctt	tcaacttggt	1980
aagtcttccg	tgtgtctacg	cctgttgctt	cctctgggaa	gccttctctg	acttccctgg	2040
gtggctcagg	ttcctgctta	tatgcaagca	ggtagcttct	tttcatcgca	ttcaacacag	2100
ttgcatgctt	acatttatct	ctgtgattat	tttgtctgcc	tccccacca	aaacgtaggc	2160
tccatgaggg	taggtagtct	tcttctccac	catgttctca	gcacctcgcc	cagtgcctgg	2220
catagaatag	atgctcaatg	gtaaatgaac	cactccccga	tctcctccac	agagggggggc	2280
cgcaacatct	ccaaccagct	gagcattggc	acggacatct	cggcccaaca	cccggagctg	2340
cggactcatg	cccaggccaa	gggctgggtg	gatgggcagg	gtgcctttga	ctttgctcag	2400
atcttctccc	tgaccagca	gcctgtgcgc	atggaggctg	ccaaggcccc	cttccaggca	2460

gggaggggagc	tgctgaggca	acggcaaggt	tagtgaacgg	tggagggggc	tgggggcca	2520
gaggggccaca	gcagtggccag	ccactctccc	ctcccacagc	ttccccctct	actccttggc	2580
agggggcatc	acggcagagg	tgatgatgg	catcctcaga	gacaaggaga	gtggtatctg	2640
tatggactcg	ggaggctttc	gcaccacggc	cagcatgggtg	tctgtcctgc	cccaggatcc	2700
cacgcagccc	tgcgtgcact	ttcttaccgc	cacgccagac	ccatccaggt	gggaagaatg	2760
aggggtgggga	aggctgggga	gaagagagga	tctgatatat	ctccgtgctt	ccatctgtg	2820
ccctctaggt	ctgtgttcaa	acctttcatc	ttcgggatgg	gggtggccca	ggccccccag	2880
gtgctgtccc	ccacttttgg	agcacaagac	cctgttcgga	ccctgccccg	attccagact	2940
caggtagatc	gtcggcatac	cctctaccgt	ggacaccagg	cagccctggg	gctgatggag	3000
agagatcagg	tatccccag	ggagtagggg	ctaccctgag	gggatgatag	acctcccca	3060
ctccagtg	gactctggaa	atatgaagga	actaggaggt	ggaagagatt	tcagagctgg	3120
ggagaggagt	tctcccttc	aaagccagca	actgcctttg	gggaatgtcg	gggggtatct	3180
cctttctcct	gcttgtgtga	ggtggtacac	agtccccct	tcacctggcg	ggagcctgt	3240
cccggacaga	ctcatctcag	ctttcccttg	gggcaggatc	gggggcagca	gctccagcag	3300
aaacagcagg	atctggagca	ggaaggcctc	gaggccacac	aggggctgct	ggccggcgag	3360
tgggccccac	ccctctggga	gctgggcagc	ctcttccagg	ccttcgtgaa	gagggagagc	3420
caggcttatg	cgtaagcttc	atagcttctg	ctggcctggg	gtggaccag	gacccctggg	3480
gcctgggtgc	cctgagtggt	ggtaaagtgg	agcaatccct	tcacgctcct	tggccatggt	3540
ctgagcggcc	agcttggcct	ttgccttaat	aatgtgctt	tattttctct	tcagtga	3598

<210> 1090

<211> 5689

<212> DNA

<213> Homo sapiens

<400> 1090

tttagaatca	ggtggctcac	tgagctctgt	atthttgtttc	ctggagcttt	cactggtttc	60
ttccccctgag	atacccccaag	tgacatgaaa	agcatactca	gggcctagag	acactttact	120
ggggatgggc	ttctgtcaca	ggtcagaggt	ctgagaagag	gggcaggccc	cactcctctc	180
cactagtaga	gaaaggttga	cagagaatca	tttcttgctt	ctcttgccg	tagttttggt	240
tgtgtgggg	gcctcagcca	cagaggcctt	ggggctgtg	gctgctcgtg	cccccttct	300
tccccagaaa	gagctttggg	ggccccctgg	aatcagactg	catggtttct	tgggtgggaga	360
ggaggcctgg	ggtgaggaga	cggcctcagg	gactgtctcc	tcccttgcg	caggagtggc	420
agaagggtg	ctgtccccag	ccatgggcac	cccaggtagc	aggggcaggt	cggtaggggt	480
gggctgcac	tccatcctca	gcagggtgctc	tgtcaggggc	gtctgttgcc	ggtgctccct	540
gtgctgctc	agctcctgct	ccagctcctt	gaggaagcct	gggaggggcc	gggggtggag	600
ggtacaggg	gggtggagcc	ctgggctcag	caggagggtc	cctgggctca	gggaagtctc	660
tggctggccc	cttgtccctt	gtgggaagga	gcctgaggct	ggggcccagg	actgacacct	720
ggctctggcc	cagatgttga	tctgaacttg	gggctccct	ccccggacgc	cactgccacc	780
ttagcttccc	tcatgtccca	cagggcagag	gtgggctctg	gggaggctga	aaaccttgga	840
aagcagggc	acctcgttct	gagcagaatg	ggccactcag	ctctgggaac	tcctcatcgc	900
ttgaggcttc	atcctcctca	tccgaaatcc	agcgtccac	cacaggctgc	ccgtccaggt	960
ccaggagaag	tggcagggct	tctgtcacca	gctcgtgca	gagcagaagg	agcagaggtt	1020
acccaggagg	gcaccctggc	gtggaggatg	caaagacacg	caccacagca	ctcacacctg	1080
gaggggtggt	ggctcatgag	ctaggtagga	ggtgggggag	aaggtgtcat	ggacaggacc	1140
ccaggtttgc	aggctgagag	gggtctgggc	tgagttagca	ggtagagctc	agccatgacc	1200
tttcttccca	ccctccactc	cttaccggta	gccacctgg	ttggtgcagc	tgtttccaga	1260
caggttgagg	atgagaaggc	tctgggggaa	ctcatctgca	cacagcaaag	agagaggaaa	1320
tggggttctc	acttgatctt	agccaaaaga	ccatgaagcg	atgggaatgg	ggttctcata	1380
cccactttct	agtccaaagc	cagtacctct	aggcacaacc	ccttgaactc	cctgaggatg	1440
aaatgtggag	ctgcaggggc	atggctaata	gaagcatggg	cagatgggtg	cagaggggag	1500
ggcaggcccc	acaggggatg	tgtttggtga	gccagggcga	gtgggttctt	acccagcttc	1560
aatgtttcta	tcagtttctc	agaaaggctc	agaaactgga	ggcatgggag	gtcgaggagg	1620
ttttccacct	gcctgatttg	gtttctgtg	agagacagga	agctgtaggg	gaaggagggg	1680
gtacagaggc	agagctgaat	catggaacag	ctggaagaaa	agaggagggc	acctgacacc	1740
ggggccccctg	ggctaggcag	ctgatgacca	gtggggacac	atggccttct	gggggtgaggg	1800
agtagatcta	ggcttgctgg	tccttgactg	acaaggacct	aggcttgag	aaatctgaac	1860

cagttctttg	ggatatggct	aggttcccc	aaccctctt	cccctgctg	agccctggca	1920
ccacataccg	caaggagggg	atgcaagcca	ggttctcaat	ttgctggatc	ttattctgca	1980
agaagaaacc	gaagtgggga	aaccaagctg	agatcagatg	cgtcaggggc	cctttacggg	2040
gacaaagccc	caagaccatg	tctactctgc	agctggagat	ctggcacttt	gggaatgatc	2100
acccactcc	ttgaacaggt	tgccactacc	ttaagaaaga	tgattttctt	tccccatgtg	2160
gatggttaag	ggtgtaaacc	tggggtatct	aaacctgact	acgtatactc	ttctgattcc	2220
acaaccaaag	agtgacctgg	gaatcagaaa	aggaaactaa	gaagccacca	ggaacggga	2280
aagggccttg	gtggtggctt	gcatacacag	agagaacaat	gagcatacag	gaacttgacg	2340
gttaaagttt	ctatggggaa	agttgaagcg	agctgggaat	actcaaccag	gggaaggctg	2400
aagatcaacc	aaccaccacc	accaccacca	aacagccttc	aagtaggatac	tgaatgatgt	2460
acaggaatct	tcatagtttc	ctcttcttca	aaacaggaaa	tgggctggag	ctattttaacg	2520
tgaagatttt	agagtagatg	ccaaaaagaa	cttctagatc	aagagaagtg	cctaaagaac	2580
agtggaaagga	gcacaggtca	tgttcaggat	ctatttttgag	ggaattagtt	tttcaattca	2640
ggaccctatg	tcattcgtct	gggaatgggt	taaatgaagg	tctgcctgc	tgaacaccag	2700
ggaatgggca	ggatgacctg	gttggctcct	ttcagatgag	acagattagg	tccacagggg	2760
tcaaggggag	gggaagggtg	gagaaagagt	ttacccttg	cagatagaga	ctgtgaagat	2820
tctggaggcc	ttctaagttc	ctgatatgag	taatcccctc	ccggtccagg	cggacagtct	2880
gcagttcatc	aagagtgtga	aacctgggaa	aagagtcagt	aaggggtggtg	ttagagcacc	2940
actcatgttg	tctcttagca	gggaggatgg	gagacggagg	agggaaaggg	tttcaaggag	3000
gggtagtttg	ctgagtcatt	ttaatcagat	gtgagaaaca	tcttgacatc	ttgaggtggt	3060
gtctagatca	tgaaccggc	ttgacttgca	gactcgtatc	tcattgtta	gcactgggaa	3120
gggtgagaga	gaggagtaag	ggccctctg	gaaattgggg	gatggcagct	tatggtttct	3180
ggagagattc	agaggcaaga	gaaaccttcc	tctggccagc	ttggatgggtg	gaggcagggg	3240
tgggacagag	atgagacact	gcagaaagat	ccttccctcac	cttccctttg	agtcgttcat	3300
ggagaaaaaa	gcacttgttc	catccacca	ttcattcatt	ccacaacatt	gctgagtgcc	3360
tactagagac	aaatgacaga	gtctctgccc	accactaata	aagaagcagg	gcaggctgac	3420
catggtggct	taccctgtac	tcccagcact	ttgggaggcc	gaggcaggag	gatcgctcga	3480
gcccaggagg	tcgaggctgc	agtgtgccat	gattatgca	ctgcacttca	gcctgggtga	3540
cagagcaaga	ccctatgtca	taaaaaaaaa	aaaaaaagag	gctgggagag	gtggctcact	3600
gtaatcccag	cactttggga	ggtcgagggtg	ggtggattgc	ctgaggctcag	gagttcaaga	3660
ccagctggc	taagatgggtg	aaaccccatc	tctactaaaa	atacaaaaaa	aattagccgg	3720
gtgtggtggc	gcacacctgt	agtcccagct	actcgggagg	ctgaggctgg	agaatcgctt	3780
caactcagga	ggcagacgtt	gcagtgagcc	gagatcacac	cattgcactc	cagcctgcgc	3840
aacagagtga	gactccgtct	caaaaaaaaa	aaaaaaaaaat	aggaagaagg	ccaaacatct	3900
atgacaagtg	gataacagag	gcaagtacag	gaaaggaa	gaaggaggag	gaagaaggga	3960
aagaaggagg	aagaggaaga	agaaagaaag	aaagaaagaa	taaggccaaa	catccctgac	4020
aagtggataa	cagaagcaag	tacaggggac	aaagggagta	cataggctgt	gcactaaatt	4080
cacagtagga	ggaatcaggg	aatgcttcc	agaggaagggtg	acagatgagt	aggcattagc	4140
catgaagggtg	gggggatatg	gggagaaggc	atttcaagca	gaagggaatag	tacatgctaa	4200
tacagccctt	ccgaaactcc	aatatgccc	tgcagattct	aattcagtag	atcgggtgga	4260
ggggctgaga	tgtccactt	ctaacaagcc	cctgtgatg	ccaatgctgc	tgtcctaccc	4320
ctgcaccccc	tcccatccac	acatactctg	agtagtaagg	tactaagggtg	tgagtacaca	4380
gtgtgggaaa	ttgtacactt	gtggagagtg	gccagaaata	aggctgaaaa	gcagaagtca	4440
actcatgctt	aggcattggg	atttattttg	gaggaagttt	ctatcagtga	atgcctgatt	4500
agatttggtta	tttaaaagga	tcactttggc	tactcaggag	gctgaagtgg	gaggattgt	4560
tgaggagttc	aagaccagtc	tggccaacag	agcaagaccc	catctctaaa	aaagtaatta	4620
aaaatacttt	actttttgtt	tgttttagaa	atagggtctc	accctgttgc	ccaggctggc	4680
atgcaatggc	atgatcatag	cttactgcag	ccacaggtac	ctgggttcaa	gtgatcctcc	4740
tgtctcagcc	acctaggact	acaggtgtgc	accaccatgc	tcagctagtt	tatttttatt	4800
ttttagagat	aggattctgt	ctctattgcc	caggctggtc	tcaaactcct	gggctcaagt	4860
gatecctctg	cctcagcctc	ccaaagtggg	gggtgtgtag	gagagagggtg	aacacggcct	4920
tatctaagac	agtttgatga	ggatgggtgaa	aaagaaatgg	aattattttg	agaagggaa	4980
aatcagctgg	gcattaccac	tgattgaatg	tgtggagtaa	ggagagaaac	aaagatcagt	5040
tgacaaatca	gtacacgtca	gggacctggg	catcctgagt	gtttcagcct	tctagcacc	5100
cttttctccc	ccatgcactc	acatcttctc	tgacagttcc	ccatcttcag	ggaaagtcaa	5160
gttccgctta	gtgataaggg	cttcagtgat	gcagacgccc	ccttccctctg	gaccctgggc	5220
tgacttccct	gtgaaaagat	gagtccaact	gtgacacttc	ctcactcttg	gaggccttac	5280

cccgtgtgtt	tccaactgct	ctaccacccg	tcccacctcc	ctactcacct	ccagacatga	5340
tctaaaataa	aaggctgctg	gtctgaggcg	ggagaggaac	gaaaaggag	gtcttggcgg	5400
cccctaagga	tggcagaact	caggatggca	ggaggagaga	gaaactcaga	gacttaggag	5460
aggaggaaa	ggggttgatt	cagagaaaat	tgctgggggtg	aggtcgaaga	aaacagtaaa	5520
ttgatgtgaa	gggtctggag	tttgaggggt	gtggaggggc	tttgctggca	gcaagctggg	5580
gtgttggtgg	caggaatggt	tgagaaagga	gcagttccta	ggaagccgga	gtcgttgcta	5640
agagactgga	cgccgagtgg	ggaggtaaa	gcgggctccg	ttggcccgg		5689

<210> 1091
 <211> 776
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (709)..(709)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (738)..(738)
 <223> n equals a,t,g, or c

<400> 1091	
tacaacgtcg	tgactgggaa aaccctggcg ttacccaact taatcgccct gcagcacatc 60
cccctttcgc	cagctggcgt aatagcgaag aggcccgcac cgatcgccct tccaacagt 120
tgcgcagcct	gaatggcgaa tggcgccctga tgcggtatct tctccttacg catctgtgcg 180
gtatttcaca	ccgcatatgg tgcactctca gtacaatctg ctctgatgcc gcatagttaa 240
gccagccccg	acacccgccca acaccgctg acgcgcctcg acgggcttga ctgctcccgg 300
catccgctta	cagacaagct gtgaccgtct ccgagctg catgtgtcag aggttttcac 360
cgtcatcacc	gaaacgcgcg agacgaaagg gcctcgtgat acgcctatct ttataggtta 420
atgtcatgat	aataatggtt tcttagacgt cagggtggcac ttttcgggga aatgtgcgcg 480
gaacccctat	ttgtttatct ttctaaatac attcaaatac gtatccgctc atgagacaat 500
aaccctgata	aatgcttcaa taatattgcc aaaggaagag tatgagtatt caacatttcc 600
gtgtcgccct	tattcccttt attgcggcat tgagcctgtc tgtttttgct caccagaaa 660
cgctggtgaa	agtaaaagat gctgaagatc agttgggtgc acgagtggng tacatcgaac 720
tgatctcaa	cagcggtnag atcctcga ggtttcgccc ccgaagaacg tttttc 776

<210> 1092
 <211> 878
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (741)..(741)
 <223> n equals a,t,g, or c

<400> 1092	
gaaaaccctg	gcgttaccca acttaatcgc cttgcagcac atcccccttt cgccagctgg 60
cgtaatagcg	aagaggcccc caccgatcgc ccttcccac agttgcgcag cctgaatggc 120
gaatggcgcc	tgatgcggta ttttctcctt acgcctatgt gcggtatttc acaccgcata 180
tggtgcactc	tcagtacaat ctgctctgat gccgatagt taagccagcc ccgacacccg 240
ccaacacccg	ctgacgcgcc ctgaggggct tgtctgtctc cggcatccgc ttacagacaa 300
gctgtgaccg	tctccgggag ctgcatgtgt cagaggtttt caccgtcatc accgaaacgc 360
gcgagacgaa	agggcctcgt gatagccta tttttatagg ttaatgtcat gataataatg 420
gtttcttaga	cgtcagggtg cacttttcgg ggaaatgtgc gcggaacccc tatttttta 480

tttttctaaa	tacattcaaa	tatgtatccg	ctcatgagac	aataaccctg	ataaatgctt	540
caataatatt	gaaaaaggaa	gagtatgagt	attcaacatt	tccgtgtcgc	ccttattccc	600
ttttttgcgg	cattttgcct	tcctgttttt	gctcaccag	aaaacgctgt	gaaaagtaaa	660
gatgctgaag	atcagttggg	tgcacgagtg	ggttacatcg	aactggatct	caacagcggg	720
aaaaaccttg	agagttttcg	nccccgagaa	cgtttttcaa	tgatgagcac	ttttaaagtt	780
ctgctatgtg	gcgcggtatt	aatccctatt	tacgcccggg	cagaagcact	cggtcgccgg	840
atacactatt	ctagaatgac	ttggttgagt	actaacca			878

<210> 1093
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 1093						
cgctcgtgact	gggaaaaccc	tggcgttacc	caacttaatc	gccttgcagc	acatccccct	60
ttcgccagct	ggcgtaatat	cgaagaggcc	cgcaccgac	gcccttccca	acagttgcgc	120
agcctgaatg	gcgaatggcg	cctgatgcgg				150

<210> 1094
 <211> 1299
 <212> DNA
 <213> Homo sapiens

<400> 1094						
tttttttttt	ttttggcaaa	taaagagtaa	aacaggctat	ttaaaacatc	cattttaaag	60
caaattttga	tatcccaaga	gaaaaatggt	aatcatttaa	atagacaggatt	atcgccca	120
cccttaccac	ttccctcctc	tcccaagttt	tagaaaacgt	agccttagcc	cacacaagtc	180
aagtcagcca	ggagtcctta	catcttaaga	actcccactc	agatgagagg	gctgaggcag	240
atagaggggg	acttttccct	cttttgagga	aggagatgga	aaagagagaa	aatagtctaa	300
catatcctat	aagcaggca	tggggcaata	ttataaatat	aaacacacac	acacacacac	360
acacatgcat	gcacacacac	acacccacac	ttaatcatca	caactgtctt	ggaacgggga	420
attatcatcc	tcattctacag	acaaggaaac	tgaggcttag	aaaggtgaag	cagtttgccc	480
caactggtag	tgacccaggt	gggagtagag	gcctccatag	ccctccagt	ccatggtgac	540
ctgcggtcct	gtccagactc	accagcagtc	cccatgcca	gcatgaacgc	gtccatggtg	600
taaggcagtc	cccggggccc	gcctcttgct	ccagggtggg	acatgacttc	tttcgggtga	660
gctttcttac	attctacctg	ttaaacagaa	aggcgaacaa	atgagatgca	aatgaattcc	720
acgtaaatgt	caaatgcaga	acctgtctgg	ttatgagcta	agttattttt	agccttgctc	780
cttaccactc	gtaaaaatag	ccatgccgag	taaatggcct	gcaaaaataaa	tacttaagaa	840
aacacgccac	ttgtgcaaat	cctgcttcgg	aaaaacctac	aaggatgaaa	ctgggttctg	900
gaggggtggc	aaggacgtaa	gctgcagata	tacacacagat	ttgaagctca	ggctgacgct	960
cgtgcagaaa	gcatgacaga	taaggaggca	gacaatggct	gttggatgtg	tctgtgaata	1020
ataacaacaa	tagcaataat	aataatccct	caggattttt	cagcccttta	cacattttaca	1080
aatgcccctg	acattctctc	aggccagtga	ctcttcatgc	caggccatct	gattcaaact	1140
cttattaaac	agacagacca	cttagcctta	gctccagttc	acagatgaga	aaacagagca	1200
tcagaagttt	tgtgttggt	gggcgtgggg	gatcatgttt	gtaatcccag	cactgtggga	1260
ggtggaggca	ggtgaatcag	cttgagccca	ggcgtttca			1299

<210> 1095
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 1095						
tttttaaaaa	catttttctca	tttatttctca	cttgtttctt	cttccaggga	taagtttttag	60
aaacatctgg	ccaattttaa	aaaattacaa	taggattttct	ctttgaaact	ctgttaagcc	120
taaaaaattc	atatgaggag	aattaacatc	atggccattt	ttaatatctt	cctggcatct	180
ttttctattt	cataaagttc	ctcaaaaatag	ttttacctgc	ccttggttatt	tcctcagaca	240

agtagataca	attctttgtc	agaccacaag	atgtttttata	aattttaaat	taagccagaa	300
gtgatttaaa	cagcagcaaa	tctgaaaata				330

<210> 1096
 <211> 3328
 <212> DNA
 <213> Homo sapiens

<400> 1096						
ttgttttgtc	tcagggttttt	tttttctttt	ttttttttga	gaggggtgtct	cgctctgttg	60
acaggctgga	gtacagtagc	acgatctcag	gccactgcaa	cctctacctt	ctgggttcaa	120
gagattctcc	tgccctcagcc	tcccaagtag	ctgggactat	aggcgcatgc	caccacgccc	180
agctaatttt	tgtattttta	gtagagacag	ggtttcacca	ttgttgacca	agctgggtctc	240
gatctctttg	accttgtgat	ccacccacct	tggcctccca	aagtcctggg	attacaggcg	300
tgagccactg	tgcccagcct	ggctcagggt	tttcaatata	gtcttgacct	tggcattcag	360
tatcctcaca	gcatggttct	aattaaacttt	ctagctctat	ttcccttttc	ctgctccctc	420
tctctacaac	tagtctttct	ctgattgccc	cgccctcaac	ccatctaaac	tagaccccag	480
ggaagcacct	tggtcccctt	cctctctccc	actcaccatc	caaccaatca	ccagagcctg	540
tacattctat	attttcaaca	tcgattcaat	tgtctacttc	tttctagcct	gccctctctg	600
actgggactc	cttgagccag	cctgatcacc	ccaatccatc	cctcacactg	tgcccattctt	660
tctgaagtag	gaatctgatc	acaccaccct	gctaaaaaca	ctctggttct	ccccacggca	720
tgtggtgccc	ttgtatagct	ggcaaagcct	tgcattggac	ggccccagcc	tgtgcttcaa	780
ctcaattgcc	cgactctctc	cagctctgtc	gagccacctt	agtcacagat	ggtttctcct	840
ctcatctctg	ctctcttcca	tgtgccattt	ctgtggcttg	gaatgttctt	ccctcattct	900
ctttctggcc	ctttcccgtc	acaccttaga	cgctgcattt	cctctcgaaa	acctctagt	960
aagcctccca	gggccaggca	gtacctctct	ctggcttctt	ctggatacag	aggagaatc	1020
tgagcatcga	ttctccatct	cagcaggcct	ctgtgtgcct	gctgactccg	actagaccag	1080
agatccgtaa	ggacagggat	cgagtttttt	ttcttttaat	tcactgcctc	aaaaatcctc	1140
tgtgcattac	ctattcatcc	tcttctctcc	cttaacctga	accagtgtat	ttactgtctc	1200
catcattggt	tttttcttct	cttttcttct	cttttttttt	tttgaggtgg	agtctggctc	1260
ttcacccagg	ctggagtgc	gtgatgcgat	ctcgactcac	tgcaacctcc	atctcctggg	1320
ttcaagcgat	tctcctgcct	cagcctcccc	agtagctggg	attacaggca	tgcgctacca	1380
tccccaaacta	atttttgcct	ccataatttt	gccttttcta	gaatgtcata	cagggtggaat	1440
tactcagtat	gctgcctttt	tcagattggc	ttcttttact	tagtaatatg	tttgtttttt	1500
gagacagggt	cttgctctgt	cgcccaggct	agagtgtggg	ggtgcgatct	tagctcactg	1560
aaacctccac	ctcccagggt	caagtgaact	tctgcctca	gcctcccag	tagctgggac	1620
tacaggcaca	tgcaccata	cccggcta	ttgtggattt	ttagtacaga	cgggggtttca	1680
tcatgttggc	cagggtgttg	ttgaattcct	gacctcaagt	gatccacctg	cctcagcctc	1740
ccaaagtgtt	gcgattacag	gtgtgagcca	ctgcgccaa	cctcatttag	taatatgcat	1800
ttaaactttc	tccatgtctt	taatggcttg	atagctcatt	tattttatc	atggaatatt	1860
tcattgtctg	gatggaccac	agtttatttc	tccattcacc	tactgaagga	catctcggtt	1920
gcttctaagt	tttggcaatt	atgaataaag	ctgctataac	catcaagtgc	aggtttttgt	1980
gtggacctat	tatcaactaa	ttcgggtaaa	tctcaaggag	tgcaattgct	ggatcacaca	2040
gtaagagtgt	gtttagtgtt	aagtggctgt	gccattttgc	attcccacca	gcaatgaatg	2100
agagtttctg	ttgctccaca	ttctcactac	cattcggtgt	tgtcagtgtt	ttgcattttg	2160
gccattctag	taggtgttta	catggatatc	agtcatttga	atgggcata	gatgtggaac	2220
atcttttttt	ttttaatttt	attattatta	tacttttaa	tttagggtag	atgtgcacaa	2280
cgtgcagggt	tgttacatat	gtatacatgt	gccatgttgg	tgtgctgcac	ccattaacta	2340
gtcatttagc	attaggtata	tctcctaata	ctattggaac	atcttttcat	gtgtttatct	2400
gccatctgta	tatcttccct	gatgagttgg	ggatgcattc	tttccatctc	agagtcccca	2460
gaaactaaca	tagcagttgg	tacagagttg	gtgctcaaca	aacatcagct	taggaactat	2520
gtcctatggt	tttttgtttt	tttttttttt	tataaaaggaa	tgtgagctgt	tcccaaaacg	2580
tatgtctctc	ccccatgcct	ctaccctgcc	cttccacaaa	ctttctgata	ttcacgacac	2640
actaccaaac	catcaaggct	gagacttccc	gtgcccagca	gtgtctcatg	ctggcttcaa	2700
gccccacagc	actgcttttt	tcaacttctc	ttgtgggtta	gactgtcttt	agcccagcaa	2760
gagaattcat	tgtcttatcc	cccatttaac	tgtacctaca	ctctttgagg	aaaagggtcc	2820
atcttactta	aaatattttt	aaaattcaca	tgtgataaaa	ctgatgtgta	tgtgtatgag	2880

agagagagaa	agagagaaca	gttctatgag	gcttaatgta	tacatgtggc	tgtgcagccc	2940
actgccccat	gtcaccattt	tcaattctgt	cattaccctt	gggacaatgt	cttgtcaata	3000
tacacttgag	gctgggcggg	gtggttcctg	cctgtaatcc	cacctgtaat	caggagttca	3060
agaccagcct	ggccaacaca	gcaaaaccc	gtctctacta	aaaatacaaa	aatttgctgg	3120
gcgtgggtggc	acgggcctgt	aatcccagct	actcaggtgg	ctgaggcagg	acaatcgctt	3180
gaaccgggga	ggtggaggtt	gcagtgaagg	aagatcgctg	caatgcactc	cagcctaggg	3240
aacagagcga	gactctgtct	caaaaataca	tacatacaca	cacacataca	cacacacgg	3300
caagagacac	agtgaagtaga	aacaccga				3328

<210> 1097
 <211> 3051
 <212> DNA
 <213> Homo sapiens

<400> 1097	
tttttttttt	tgagaggggtg tctcgctctg ttgacaggct ggagtacagt agcacgatct 60
caggccactg	caacctctac cttctgggtt caagagattc tcctgcctca gcctcccaag 120
tagctgggac	tataggcgca tgccaccag cccagctaat ttttgtattt ttagtagaga 180
cagggtttca	ccattgttgg ccaagctggg ctcgatctct ttgacctgt gatccaccca 240
ccttggcctc	ccaaagtctt gggattacag gcgtgagcca ctgtgcccag cctcggtca 300
ggtttttcaa	tacagtcttg accttggcat tcagtatcct cacagcatgg ttctaattaa 360
ctttctagct	ctatttccct tttcctgctc cctctctcta caactagtct ttctctgatt 420
gccccgcct	caacctatct aaactagacc ccagggaagc accttggctc ccttccctctc 480
tccactcac	catccaacca atcaccagag cctgtacatt ctatatattt aacatcgatt 540
caattgtcta	cttcttttcta gcctgcccct tctgactggg actccttgag ccagcctgat 600
caccccaatc	catccctcac actgtgccc tctttctgaa gtaggaatct gatcacacca 660
ccctgctaaa	aacactctgg ttctccccc ggcattgtgt gcccttgtatagctggcaaa 720
gccttgcatg	gcacggcccc agcctgtgct tcaactcaat tgcccagctc tctccagctc 780
tgctgagcca	cctaagtcac agatggtttc tctctctatc tctgctctct tccatgtgcc 840
atctctgtgg	cttggaaatgt tcttccctca tctcttttct ggccctttcc cgtcacacct 900
tagacgtgca	tcttccctct gaaaacctct agtgaagcct ccaggggcca ggcagtagcc 960
tcctctggct	tcttctggat acagaggaag aatctgagca tctgattctcc atctcagcag 1020
gcctctgtgt	gcctgtgac tccgactaga ccagagatcc gtaaggacag ggatcgagtt 1080
ttttttcttt	taattcactg cctcaaaaat cctctgtgca ttactattc atcctcttct 1140
ctcccttaac	ctgaaccagt gatcttactg tctccatcat tgttttttct ttttcttttc 1200
ttttcttttt	tttttttgag gtggagtctg gctcttcacc caggctggag tgcagtgatg 1260
cgatctcgac	tactgcaac ctccatctcc ttgggttcaa cgattctcct gcctcagcct 1320
ccccgtaggc	tgggattaca ggcattgcgt accatcccca actaattttt gcctccataa 1380
ttttgccttt	tctagaatgt catacagggt gaattactca gtatgctgcc tttttcagat 1440
tggtctcttt	cacttagtaa tatgtttgtt ttttgagaca gggctctgct ctgtcgccca 1500
ggctagagtg	tgggtgtgct atcttagctc actgaaacct ccacctcca ggttcaagtg 1560
actctcctgc	ctcagcctcc cgagttagctg ggactacagg cacgtgccac catacccggc 1620
taatttgtgg	attttttagta cagacggggg ttctgtcatgt tggccagggt gttgttgaat 1680
tcctgacctc	aagtgatcca cctgcctcag cctcccaaag tgttgcgatt acagggtgta 1740
gccactgcgc	caagcctcat ttagtaatat gcatttaaac tttctccatg tctttaatgg 1800
cttgatagct	cattttattt tatcatggaa tatttcattg tctggatgga ccacagtta 1860
tttctccatt	cacctactga aggacatctc ggttgcttct aagttttggc aattatgaat 1920
aaagctgcta	taaccatcaa gtgcagggtt ttggtggac ctattatcaa ctaattcggg 1980
taaatctcaa	ggagtgaat tgctggatca cacagtaaga gtgtgtttag ttttaagtgg 2040
ctgtgccatt	ttgcattccc accagcaatg aatgagagtt tctgttgctc cacattctca 2100
ctaccattcg	gtgttgctag tgttttgcat ttggccatt ctagtagggt tttacatggg 2160
atctagtcat	ttgaatgggc atatgatgtg gaacatcttt ttttttttaa ttttattatt 2220
attatacttt	aagttttagg gtacatgtgc acaacgtgca ggtttgttac atatgtatac 2280
atgtgccatg	ttggtgtgct gcacccatta actagtcatt tagcattagg tatactcct 2340
aatgctattg	gaacatcttt tcatgtgtt atttgccatc tgtatatctt ccctgatgag 2400
ttggggatgc	attctttcca tctcagagtc ccagaaact aacatagcag ttggtacaga 2460
gttgggtgctc	aacaaacatc agcttaggaa ctatgtccta tgtttttttg tttttttttt 2520

tttttaaaaa	ggaatgtgag	ctgttcccaa	aacgtatgtc	cttcccccat	gcctctaccc	2580
tgcccttcca	caaactttct	gatcttcagc	acacactacc	caaccatcaa	ggctgagact	2640
tcccgtggcc	agcagtgtct	catgctggct	tcaagcccca	cagcactgct	tttttcaact	2700
tctcttgtgg	tttagactgt	ctttagccca	gcaagagaat	tcattgtctt	atcccccat	2760
aaactgtacc	tacactcttt	gaggaaaagg	gtccatctta	cttaaaatat	tttaaaaatt	2820
cacatgtgat	aaaactgatg	tgtatgtgta	tgagagagag	agaaagagag	aacagttcta	2880
tgaggcttaa	tgtatacatg	tggccgtgca	gcccactgcc	ccatgtcacc	attttcaatt	2940
ctgtcattac	ccctgggaca	atgtcttgtc	aatatacact	tgaggctggg	cggttggtt	3000
cctgcctgta	atcccacctg	taatcaggag	ttcaagacca	gcctggccaa	c	3051

<210> 1098
 <211> 3029
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (150)..(150)
 <223> n equals a,t,g, or c

<400> 1098	
ntanccatt	gtgcccagcc
gtatcctcac	agcatggttc
ctctctacaa	ctagtctttc
gggaagcacc	ttgggtccct
gtacattcta	tattttcaac
gactgggact	ccttgagcca
ttctgaagta	ggaatctgat
atgtgggtgcc	cttgatatagc
actcaattgc	ccgactctct
tctcatctct	gctctcttcc
tctttctggc	cctttcccg
gaagcctccc	agggccaggc
ctgagcatcg	attctccatc
gagatccgta	aggacaggga
ctgtgcatta	cctattcatc
ccatcattgt	ttttttcttt
cttcacccag	gctggagtg
gttcaagcga	ttctcctgcc
atccccaa	aatttttgcc
ttactcagta	tgctgccttt
tgagacaggg	cttgctctg
gaaacctcca	cctcccagg
ctacaggcac	atgccaccat
atcatgttgg	ccagggtggt
cccaaagtgt	tgcgattaca
tttaaaacttt	ctccatgtct
tggtctcaggt	ttttcaatac
tctagctcta	tttccctttt
ccgcctcaa	cccatctaaa
cactcaccat	ccaaccaatc
ttgtctactt	ctttctagcc
cccaatccat	ccctcacact
tgctaaaaac	actctggttc
ttgcatggca	cggccccagc
tgagccacct	aagtacaga
tctgtggctt	ggaatgttct
tctgtggtcc	tgctgactcc
tgctgactcc	gactagacca
ttcactgcct	caaaaatcct
aaccagtgat	cttactgtct
ttttgagggtg	gagctggct
ctgcaacctc	catctcctgg
gattacaggc	atgcgctacc
agaatgtcat	acagggtgaa
ttagttaatat	gtttgttttt
tggtgcgatc	ttagctcact
agcctcccga	gtagctggga
tttagtacag	acgggggtttc
tgatccacct	gcctcagcct
gcctcattta	gtaatatgca
ttatttttat	catggaatat

ttcattgtct	ggatggacca	cagtttattt	ctccattcac	ctactgaagg	acatctcggt	1620
tgcttctaag	ttttggcaat	tatgaataaa	gctgctataa	ccatcaagt	cagggtttttg	1680
tgtggacct	ttatcaacta	attcgggtaa	atctcaagga	gtgcaattgc	tggatcacac	1740
agtaagagt	tgtttagttt	taagtggctg	tgccattttg	cattcccacc	agcaatgaat	1800
gagagtttct	gttgctccac	attctcacta	ccattcgggtg	ttgtcagttg	tttgcathtt	1860
ggccattcta	gtaggtgttt	acatgggtatc	tagtcatttg	aatgggcata	tgatgtggaa	1920
catctttttt	tttttaattt	tattattatt	atactttaag	ttttagggtg	catgtgcaca	1980
acgtgcagg	ttgttacata	tgtatacatg	tgccatgttg	gtgtgctgca	cccattaact	2040
agtcatttag	cattaggtat	atctcctaata	gctattggaa	catcttttca	tgtgtttatt	2100
tgccatctgt	atatcttccc	tgatgagttg	gggatgcatt	ctttccatct	cagagtcccc	2160
agaaactaac	atagcagttg	gtacagagtt	ggtgctcaac	aaacatcagc	ttaggaaacta	2220
tgtcctatgt	ttttttgttt	tttttttttt	ttaaaaagga	atgtgagctg	ttcccaaaac	2280
gtatgtcctt	cccccatgcc	tctaccctgc	ccttccacaa	actttctgat	cttcagcaca	2340
cactacccaa	ccatcaaggc	tgagacttcc	cgtggccagc	agtgtctcat	gctgcttca	2400
agccccacag	cactgctttt	ttcaacttct	cttgtggttt	agactgtctt	tagcccagca	2460
agagaattca	tgtctttatc	ccccattaaa	gtgtacctac	actcttttgag	gaaaagggtc	2520
catcttactt	aaaatatttt	aaaaattcac	atgtgataaa	actgatgtgt	atgtgtatga	2580
gagagagaga	aagagagaa	agttctatga	ggcttaatgt	atacatgtgg	ctgtgcagcc	2640
cactgcccc	tgtcaccatt	ttcaattctg	tcattacccc	tgggacaatg	tcttgtcaat	2700
atacacttga	ggctgggcgg	ggtggttctt	gcctgtaatc	ccacctgtaa	tcaggagttc	2760
aagaccagcc	tggccaacac	agcaaaaacc	cgtctctact	aaaaataca	aaatttgctg	2820
ggcgtggtgg	cacgggcctg	taatcccagc	tactcaggtg	gctgaggcag	gacaatcgct	2880
tgaaccgggg	aggtggaggt	tgcagtgagc	caagatcggtg	ccactgcact	ccagcctagg	2940
caacagagcg	agactctgtc	tcaaaaatac	atacatacac	acacacatac	acacacacgc	3000
gcaagagaca	cagttagtag	aaacaccga				3029

<210> 1099

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1099

gaccaacatg	gtgaaaccct	gtctctacta	aaaacacaaa	athtagctgg	gtgtgggtggt	60
gcgcacctgt	aatcccagct	actcaggaag	ctgaggcagg	agaatcatt	gaacctggta	120
ggtggagggt	gcagtgaagt	gagatcatgc	cactgcactc	cagcctgggt	gacagagcga	180
gactctctct	ccccaaaaaa	aaaaaaaaac	ctagaccaga	tgca		224

<210> 1100

<211> 468

<212> DNA

<213> Homo sapiens

<400> 1100

tcagcattaa	aatttgggga	aaaaaatggt	tgaagatcaa	tgaaaaatag	cactggactc	60
tatattttact	tatataagat	ttttttttta	aatcttgatg	aaaattttta	ttaggctaga	120
attgcagagc	tgcaagagaa	ttctgagatc	aacagggtctt	tttccttcat	ttaccagctg	180
agaaaacttg	ggtcatagga	gattaagatt	gtttatctta	ccagtgaat	tcaatacttt	240
cagaaataat	tgtagaatt	cagtgaaggt	tattctctta	aaagtacact	gcttttcagc	300
tcctatcaag	tgtttcccta	tgcttccaca	atcctgatta	tcaatttggt	tatgggccac	360
tctgggaaag	gctgtcaaat	gtttattcta	gaatccagca	actcccagat	gtccatctcc	420
atctcaggtt	ctgggtcaag	tctgatgtag	caaagaaaca	gagtaaca		468

<210> 1101

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1101							
ccaacatggt	gaaaccctgt	ctctactaga	aacacaaaat	ttagctgggt	gtggtgggtgc		60
gcacctgtaa	tcccagctac	tcaggaagct	gaggcaggag	aatacttga	acctggtagg		120
tggaggttgc	agtgagctga	gatcatgcc	ctgcactcca	gcctgggtga	cagagcgaga		180
ctctctctcc	aaaaaaaaaa	aaaaaaacct	agaccagatg	ca			222

<210> 1102
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 1102							
tcagcattaa	aatttgggga	aaaaaatggt	tgaagatcaa	tgaaaaatag	caactggactc		60
tatatattact	tatataagat	ttttttttta	aatcttgatg	aaaattttta	ttaggctaga		120
attgcagagc	tgcaagagaa	ttctgagatc	aacaggctct	tttccttcat	ttaccagctg		180
agaaacttgg	ggcatagga	gattaagatt	gtttatctta	cagttgaat	tcaatacttt		240
cagaaataat	tgttagaatt	cagtgaaggt	tattctctta	aaagtacact	gcttttcagc		300
tcctatcaag	tgtttcccta	tgcttcacac	atcctgatta	tcaatttggg	tatgggccac		360
tctgggaaag	gctgtcaaat	gtttattcta	gaatccagca	actcccagat	gtccatctcc		420
atctcaggtt	ctggtcaaa	tctgatgtag	caaagaaaca	gagtaaca			468

<210> 1103
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 1103							
gaccaacatg	gtgaaaccct	gtctctacta	aaaacacaaa	atttagctgg	gtgtgggtgg		60
gcgcacctgt	aatcccagct	actcaggaag	ctgaggcagg	agaatcactt	gaacctggta		120
ggtggaggtt	gcagtgaagt	gagatcatgc	caactgcactc	cagcctgggt	gacagagcga		180
gactctctct	ccaaaaaaaa	aaaaaaaaaac	ctagaccaga	tgca			224

<210> 1104
 <211> 1854
 <212> DNA
 <213> Homo sapiens

<400> 1104							
tttttttttt	gagactataa	acatatatat	acacgtagta	ttttctatgg	ttgccaattc		60
ttatgctaga	tgtagcatt	acaaattcgt	ataaaatctg	tgtccgcctt	catagtccaa		120
caacaaacgt	ttgctgagtg	tagaactccc	aggagttctc	tcatggacac	aacagccaca		180
ctcaccctca	cattagctgg	cagaggccct	ttatacagt	gatacgttg	ggccaagggc		240
ccctgggttg	aaaatcatta	ggtagacacc	atccagtgcc	ctgtctcatg	tgctgaacag		300
ggctagtaac	gccgactttc	actttgggag	gccaaagtgc	gtggatcact	tgaggccagg		360
aggtcaggac	cagctagcca	acatggtaaa	accctgtctc	tactaaaaat	acaaaaatta		420
gctgggcatg	gtggcatatg	cctatagtgc	cagctactca	ggaggctgag	gcatgagaat		480
caattgtacc	caggaggccg	aggtttcagt	gagccaagat	catgccacta	caactccagcc		540
tgggtgacag	agtgatatag	atctcaaaaa	aaaaaaaaaa	aagtgtcaac	ctttactttc		600
attttatcaa	gttcttggtc	cagcctgtcc	tttcaaaaag	ataccctcct	tggtaaagat		660
tccaaagttt	tgggttttct	ttaaattgat	gcatccaatg	tctttttcat	ttcattaagg		720
tcaaataaat	atgtgtcctg	ggttttccaa	aaggatattg	agattttcct	gtgccataat		780
gactgtattt	gttacaggca	aggcaatata	ctaaggtctc	tctacagatc	ttgaaaaatca		840
gatcagcctt	ggaggatgaa	attagtaaca	actaatcac	cctggaggac	accagccctt		900
tggaaggcat	tcattggaag	agactagaaa	agcagttgag	gttgggagtt	tctcatttca		960
ggcaaagtga	caaggagtg	gtatcagaaa	atacgtatct	aactaagaaa	gctagaacct		1020
atatcactct	agaagactgt	tcacaaacgg	tagcagggcc	catgtgcagc	ttggaaagag		1080
gaagcttaat	gtgcaaaaa	ttaatatccc	tgcaactctc	tggaatttgg	caagatggtc		1140

cctcagaaga	gcagatctgt	gtggtgagtg	agatatcaca	gctccatgag	gtgaacacca	1200
aaccttccaa	tcatacagttg	tctcccatgt	acttatggag	aatggtagac	aaaactact	1260
gaactgcttc	atttgtacat	tgatctcttg	tgaccttgct	ttgtgggagt	tagtcccaga	1320
gaatctttat	aaactggcaa	gattttctga	cctaaagagg	taggatctgt	ggaaaatgat	1380
gacctaccaa	agtacaaatc	tagagaactg	aggtttggag	aacatgaaaa	ccatgggtcaa	1440
acacgtgaag	gcctgccact	gggaagagga	attcaactag	caatacacag	gcccaactaa	1500
tatgtaagaa	agacactaca	aagtagtagt	taagaacaca	ggctctggag	ccaaacgact	1560
tggctctaac	acttactggc	tccatgacct	tgaacaactt	aggttccatg	tgcccttaatt	1620
tctccatctg	ttaaataaaag	tgattgtgaa	gatttaataga	gataatccaa	baaatgctt	1680
agtacaatgt	atggaacaca	gcaagttctc	aagagactag	ccattacatc	attattatcc	1740
aaagaagaaa	cagaccaccc	tgtaagattt	ggaagggagc	tccccagga	ctcctcccac	1800
cccctgccag	gggtacagag	agactagttt	attgagggcc	aaacacaaaa	cttg	1854

<210> 1105

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 1105

ggatctgtgt	ggcatggtat	gtgtgtttat	gtgtattgtg	ggtgtctgtg	tggcatgctg	60
tgcgtgtgtg	tattgtggat	gtttactgtc	ccgggcagta	gaaaggacgt	cggggaagca	120
gccccagcat	cagggaacag	ccaggagtgc	agaatgcatg	gaagctggc	aggctcggagc	180
ccgggatgaa	ggaagcacag	agatgcaagg	gtgccagggc	ccatggaacc	aagagccgat	240
gatcaaggcc	acagtgcaca	cagccctgga	ggcaaaggac	atattcattt	cacaaggatt	300
aaaaagcatg	ggccaaggct	gggccccagg	ccaggactgg	ggatacacag	tggatcagtc	360
cccacccctg	cccacaggtg	cttaccacaca	cccattcacc	tcacaggttt	ccccacccca	420
gccccttggc	gagctcctcc	tcattcctca	aaacgtcgct	gaggtcacgc	tccttcccga	480
ggcctctccc	catcctctaa	aacaccctct	ccctgctgcc	cacttgacgc	acagtcagag	540
agctccgtgg	cctgtttcca	ctggactgag	tcttctgggg	gggtctgggtg	cagagcagaa	600
ccctgggctg	ggagtcccgg	cacctcgttc	cactccctca	cccacagcct	cgctgtttaa	660
cctcaggcag	agcggtgtcc	tcctcagcct	cactttcccc	ttgtgtaaaa	tgagggaagg	720
gactgcgctc	tctaagtcac	ctttcagctt	aaaacctctt	tgaccttcta	tctggctaata	780
ggaggtgctg	accaggggca	agaagggtat	tgaaaaacgc	tttgaaaaat	tcatagcagg	840
aggcaaagga	gaaagagtct	ttattttcgt	agagcgggag	gcaggaggag	ttatggacag	900
aggctgtcga	tgaaaaggac	agcatctcag	agcactttgt	ggcattttaat	gtctaattgcc	960
tcctcccatt	aaagcagtgg	catcaaatat	ttaccaagc	agcattaaaa	attaaccttt	1020
accatgggga	tgtataaagg	ccctaagttc	cctgagaagt	gaccgaacat	caggagggtta	1080
aagtgcacag	aaggaaaggc	acaagcgggt	tgtgaataat	ggaagccccc	aaaggtcccc	1140
caacacagct	ccctgttgac	cccactccca	aagccagggc	agcctccggc	cgtgtctctg	1200
cagaggctcc	cagcccttcg	gagactccca	gagggcctgc	aggataagga	caggccctca	1260
gctgggcatc	cacagccttc	catggccttg	ccctgcctct	ctgggcagct	gggatctgta	1320
ggatggaaaag	gaatgagtct	gtcggagttg	gaagagacca	ggggagggaag	tggggagtgg	1380
tccgggcact	ggaaatagca	cgtgcagagg	cattgaggca	gagacagctg	cacatcaatc	1440
catcagaaga	gcagccaggt	ggcatgagtg	tgggggagga	aggaagcgca	ggaggggaca	1500
ggtgggagat	gcaggtaggt	ctgactgtgc	agggccatgg	taagatgtgg	gcttctcggg	1560
ccagggacag	gggtgccctc	gag				583

<210> 1106

<211> 2128

<212> DNA

<213> Homo sapiens

<400> 1106

tctacctccg	ggctgaaacg	tcaccatgcc	tccccacaga	cagacggatg	gacagatggg	60
cctccctgca	cctgctctgt	gggtgtgggg	gctcctgctc	agcagcagtt	tccagaccct	120
tctccctgct	ttccccaagc	caccgcctt	gaatctgggg	tgctctacca	gacccatccc	180
ctcattttcta	aagatttgag	ccactagtcg	tgtccctctc	cctcagaaat	gccttggtga	240

cacttggtcg	ctttcaactc	ttccacccat	ctgcctcttg	gtctcatctt	taccttctgc	300
taaaggtcct	gacccccacc	cccgccacgc	catggggcac	cccatggtgg	tgcgtccttg	360
ggagcagctc	tgtccctttc	cccgtggcct	ttgccccgcc	tcctatgact	tcgattccca	420
cctgtccccg	acccctggga	ccactgaccg	ggcccgatca	ccctgtcact	gccctgtcat	480
ctgcttacct	cacacggtgc	tctgttgacc	caggtcttgc	tgtctcccaa	cagccccacg	540
aggcttcccc	tcgctcctgg	acatgcagg	ctgagcccg	tgccccgccg	cctccatgag	600
gaaggctttt	cctctgtgag	ccccaggcca	ccctttccct	cctttaagta	attacttaag	660
tcccttgcca	gggccctccc	agtacccttt	ctaaagacac	ccctgcccc	gcatgctgca	720
ggctcctgct	ccactttcct	ctcaggccct	cgctcgtgtg	gtgctgcctt	tgtttctgt	780
ctctgccacg	gcagggggtc	agctccttgg	aggtggggct	tctgcccttg	ctgtaccact	840
gcctggcaca	cagtaggtgc	tcaataaaga	cttgagggtg	gagctgcctg	aagaatagtc	900
accagaggcc	agaaatgtct	agagctctgc	cggtaggggtg	actggccgag	gagcctggcc	960
tgcattgtgtg	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tcagggttta	tatgcagggtg	1020
tctacaggag	acatgctggg	ttctgtgtgtg	ggtgtgtgag	atatgggagc	agaacccccg	1080
ggagggtggca	gagacttggtg	ggccaaagg	ctgggggtgca	ggggggcaac	agccagggtgc	1140
cactggccac	cccagccgca	gggagccctg	cccaccctcc	aggtgcctggat	gtccaacc	1200
tcactgctat	tcccacctca	agccaggcct	ggagatggag	gccccatgac	tcagccagg	1260
ccggtttgca	gctgcggctg	acccagacgg	gcgggcagcc	cccagcccc	gggcctgcac	1320
ccaggacagg	gcccctccc	ctccctcccc	cgcttctggc	tcctaggaca	ggattctctg	1380
aattcagctc	ccctgaggct	ggggccagg	tggaggccag	gcctgggggc	tctgggctgg	1440
ggtcccagat	aggggctggg	cggccaggct	tgggaatctg	aatccagccc	cattcctggc	1500
atctgcagga	gcctcgtggg	gagggagact	tgggatggac	ttcaaccagc	cagggctgga	1560
ttcttgcccc	ggaacctgca	ttcctggggc	agccaaggga	tcctcccac	ttctgggccc	1620
agcttgcccc	tgccctggcat	tcgaggccca	tctggggcctt	gggggtgtct	ccccactct	1680
gacacataag	gacacccttc	caagcttgtt	ccttcacctg	gcggggccct	gagccccaca	1740
ccccctcccc	gtcctttctc	catccgacat	caagcgcctc	cctgcctctg	ctcgcacagt	1800
ctctgagatg	gggaactcag	cacctcacag	gtggggccag	ctctgggtgt	gtctgtgttg	1860
ggggagctgg	ggcagcccc	aaaagacctt	ggagacagac	cctcagaggc	aggagcagag	1920
gctggcagtg	gatgctgtgc	ctggaggcct	tgagggcgag	gtgtgatgat	gaggcccagg	1980
ctgcagggtg	ctttctgggt	ctccagctcc	ggagaacag	ggatttcctc	ctgctctgcc	2040
caccctcccc	agccagtgca	tgctcagctc	cagcaccgca	cctgggcgcc	ctccatgatc	2100
tgccccacct	ggacacatgg	ctcgaggg				2128

<210> 1107
 <211> 2129
 <212> DNA
 <213> Homo sapiens

<400> 1107						
tctacctccg	ggctgaaacg	tcacatgccc	tccccacaga	cagacggatg	gacagatggg	60
cctccctgca	cctgctctgt	gggtgtgggg	gctcctgctc	agcagcagtt	tccagaccct	120
tctccctgct	ttccccaagc	cacccgcctt	gaatctgggg	tgctctacca	gacccatccc	180
ctcattttcta	aagattttgag	ccactagtctg	tgtccctctc	cctcagaaat	gccttgggtga	240
cacttggtcg	ctttcaactc	ttccacccat	ctgcctcttg	gtctcatctt	taccttctgc	300
taaaggtcct	gacccccacc	cccgccacgc	catggggcac	cccatggtgg	tgcgtccttg	360
ggagcagctc	tgtccctttc	cccgtggcct	ttgccccgcc	tcctatgact	tcgattccca	420
cctgtccccg	acccctggga	ccactgaccg	gggccgaatc	acctgtcact	gccctgtcat	480
ctgcttacct	cacacggtgc	tctgttgacc	caggtcttgc	tgtctcccaa	cagccccacg	540
aggcttcccc	tcgctcctgg	acaatgcagg	gtgagcccg	tgccccgccg	cctccatgag	600
gaaggctttt	cctctgtgag	ccccaggcca	ccctttccct	cctttaagta	attacttaag	660
tcccttgcca	gggccctccc	agtacccttt	ctaaagacac	ccctgcccc	gcatgctgca	720
ggctcctgct	ccactttcct	ctcaggccct	cgctcgtgtg	gtgctgcctt	tgttttctgt	780
ctctgccacg	gcagggggtc	agctccttgg	aggtggggct	tctgcccttg	ctgtaccact	840
gcctggcaca	cagtaggtgc	tcaataaaga	cttgagggtg	gagctgcctg	aagaatagtc	900
accagaggcc	agaaatgtct	agagctctgc	cggtaggggtg	actggccgag	gagcctggcc	960
tgcattgtgtg	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	agtcagggtt	tatatgcagg	1020
tgtctacagg	agacatgctg	ggttdgtgc	tgggtgtgag	gaatatggga	gcagaacccc	1080

agggaggttg	cagacacttg	ggggccaaag	ggctggggtg	caggggggca	acagccaggt	1140
gccactggcc	accccgagcc	cagggagccc	tgcccacctt	ccaggtgcct	ggatgtccaa	1200
cctcactgct	attcccacct	caagcaaggc	tggaaaatga	aggcccacta	atccgcagg	1260
ggcgggttg	cacttccggt	taaccaaaaac	gggcgggcag	ccccagcccc	ctggcctgca	1320
cccaagagaa	gggcggcctc	cctccctccc	ccgcttcttg	ctcctaggac	aggattctct	1380
gaattcagct	cccctgaggc	tggggccagg	ttggaggcca	ggcctggggg	ctctgggctg	1440
gggtcccaga	taggggctgg	gcggccaggc	ttggaatctg	gaatccagcc	ccattcctgg	1500
catctgcagg	agcctcgtgg	ggagggagac	ttgggatgga	cttcaaccag	ccagggctgg	1560
attcttgccc	cggaacctgc	attcctgggg	cagccaaggg	atccttccca	cttctgggccc	1620
cagcttgccc	ctgcctggca	ttcgaagccc	atctggggct	tgggggtgtct	ccccaaactc	1680
tcatacataa	cgacaccctt	ccaagcttgt	tccttcacct	ggcggggccc	ttagccccac	1740
acccctcccc	tgtcctttct	ccatccgaca	tcaagcgctt	ccctgcctct	gctcgcacag	1800
tctctgagat	ggggaactca	gcacctcaca	ggtgggcccc	gctctgggtg	tgtctgtgtt	1860
gggggagctg	gggcagcccc	caaaagacct	tggagacaga	ccctcagagg	caggagcaga	1920
ggctggcagt	ggatgctgtg	cctggaggcc	ttgagggcga	ggtgtgatga	tgaggcccag	1980
gctgcagggc	tctttctggc	tctccagctc	cggagaacaa	gggatttccct	cctgctctgc	2040
ccaccctccc	cagccagtgc	atgctcagcc	tcagcacccg	acctggcgc	cctccatgat	2100
ctgccccacc	tggacacatg	gctcagagg				2129

<210> 1108

<211> 2132

<212> DNA

<213> Homo sapiens

<400> 1108

tctacctccg	gectgaaaag	tcaccatgcc	tccccacaga	cagacggatg	gacagatggg	60
cctccctgca	octgctctgt	gggtgtgggg	gctcctgctc	agcagcagtt	tccagaccct	120
tctccctgct	ttccccaaag	cacccgcctt	gaatctgggg	tgctctacca	gacccatccc	180
ctcatttcta	aagattttgag	ccactagtcg	tgtccctctc	cctcagaaat	gccttggtga	240
caattggctg	ctttcaactc	ttccacccat	ctgcctcttg	gttcattctt	taccttctgc	300
taaaggctct	gacccccacc	cccggcacgc	cacggggcac	cccatggttg	tgcgtccttg	360
ggagcagctc	tgtccctttc	cccgtggcct	ttgccccgcc	tcctatgact	tcgattccca	420
cctgtccccg	acccctggga	ccactgaccg	ggccccgatc	ccctgtcact	gccctgtcat	480
ctgcttacct	cacacggtgc	tctgctgacc	caggtcttgc	tgtctcccaa	cagccccacg	540
aggcttcccg	tcgctcctgg	acactgcagg	ctgagcccg	tgccccgccg	cctccatgag	600
gaaggctttt	cctctgtgag	ccccaggcca	ccctttccct	cctttaagta	attacttaag	660
tcccttgcca	gggccctccc	agtacccttt	ctaaagmac	ccctgcccc	gcatgctga	720
ggctcctgct	ccactttcct	ctcaggccct	cgtcgctgtg	gtgctgcctt	tgttttctgt	780
ctctgccacg	gcagggggtc	agctccttgg	agggtggggct	tctgcccttg	ctgtaccact	840
gcctggcaca	cagtaggtgc	tcaataaaga	cttgagggtg	gagctgcctg	aagaatagtc	900
accagaggcc	agaaatgtct	agagctctgc	cggtaggggtg	actggccgag	gagcctggcc	960
tgcatgtgtg	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgagtcaggg	tttatatgca	1020
ggtgtctaca	ggagacatgc	tgggttctgt	gctgggtgtg	aggaatatgg	gagcagaacc	1080
ccagggaggt	ggcagagact	tgggggccaa	agggtgggg	tgcagggggg	caacagccag	1140
gtgccactgg	ccaccccagc	cgcagggagc	cctgcccacc	ctccaggtgc	ctggatgtcc	1200
aacctcactg	ctattcccac	ctcaagccag	gcctggagat	ggaggcccca	tgactcagcc	1260
agggccggtt	tgcagctgcg	gctgaccag	acgggcgggc	agccccagc	ccccgggcct	1320
gcacccagga	cagggccgcc	ctccctccct	cccccgcttc	tggctcctag	gacaggattc	1380
tctgaattca	gctcccctga	ggctggggcc	aggttggagg	ccaggcctgg	gggccctggg	1440
ctggggctcc	agataggggc	tgggcggcca	ggcttggaat	ctggaatcca	gccccattcc	1500
tggcatctgc	aggagcctcg	tggggaggga	gacttgggat	ggacttcaac	cagccagggc	1560
tggattcttg	ccccggaacc	tgcattcctg	ggcagcccaa	gggatccttc	ccacttctgg	1620
gcccagcttg	gccctgcctg	gcattcgagg	cccatctggg	gcttgggggt	gtctccccaa	1680
ctctcagaca	taaggacacc	cttccaagct	tgttcccttc	cctggcgggg	ccctgagcc	1740
cacacccctc	ccctgtcctt	tctccatccg	acatcaagcg	cctccctgcc	tctgctcgca	1800
cagtctctga	gatgggggaa	tcagcacctc	acaggtgggc	ccagctctgg	tgtgtgtgtg	1860
gttgggggag	ctggggcagc	ccccaaaaga	ccttggagac	agaccctcag	aggcaggagc	1920

agaggctggc	agtggatgct	gtgcctggag	gccttgaggg	cgaggtgtga	tgatgaggcc	1980
caggctgcag	ggctcttct	ggctctccag	ctccggagaa	caagggattt	cctcctgctc	2040
tgccaccct	ccccagccag	tgcatgctca	gcctcagcac	cgcacctggg	cgccctccat	2100
gatctgcccc	acctggacac	atggctcgag	gg			2132

<210> 1109
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 1109						
gatgtgtgtt	tgtgtgtgtg	tgtggtgtgt	gtatgtgtgt	ggtgtgtgtg	tgtgtgtggt	60
gtatgtgtgt	gtgtggtgta	tgtgtgtgtt	tgtgtgtgtg	tgggtgtgtg	atgtgtatatt	120
ctttgaatga	gaaattggc	cccatgatta	tggagctgac	aactcccaag	gtctgcaggc	180
agcaagctgg	aggcccagga	gggccggtgg	tgtggctgca	gccggtgtct	gaaggcctga	240
gaaccaggag	ggcgggtggt	gcagctgcag	tgtgaaagcc	ggcaggctcg		290

<210> 1110
 <211> 96
 <212> DNA
 <213> Homo sapiens

<400> 1110						
ccaacatggt	gaaacccgt	ctctactaaa	aatacaaaaa	ttagccgggc	atggcggcac	60
gtgcctgtaa	tcccagctac	tcaggaggct	gaggca			96

<210> 1111
 <211> 2236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (996)..(1995)
 <223> n equals a,t,g, or c

<400> 1111						
tgcagggagc	tgagatcgcg	ccactgcatt	ccagcctggg	tgacagagtg	agactccatc	60
tcgaaaaaaa	aaaaaaaaag	aatctgaggt	ttaattcaag	gagcagtgga	agccattcat	120
tccaaattgt	caggatctat	gcaggtatgc	ccctccctgt	cctctctgg	cttaggggtca	180
atgcctagaa	atgtatgtga	ttgctaatag	atttgctaca	tgccaggcac	tactctgagc	240
actttattcc	ttcctttcta	atttgtgtgc	cttttatttc	ttttccgtgc	tttattgcat	300
tggctagggg	ctccagtaca	gcactgaata	ggcatggtga	cagcacgcag	acatcccttc	360
cttgttcctg	atcttaggag	aaaaacattc	cacttcccac	tcccaccagg	aaggataaga	420
ttcgctgtag	ttttgggtgt	tattattatt	atttttttgg	tttgcttgag	acagagtctt	480
gctctgttac	ccaggctgga	gtgcagtggc	acaattttga	ctgactacaa	cctccacttc	540
tcaggttcaa	gcaatcctcc	tgctcagcc	tcccagagat	ctgggactac	agtgtacacc	600
accacaccca	gctaattttt	gtatttttag	tagagacagg	gtttcaccat	gtttgccagt	660
ctggctctga	actcctgacc	tcaagtgatc	tgcccgcctc	ggcctcccaa	agtgtctgaa	720
ttacagggtgt	gagccactgt	gcctggccta	gttttggtgt	gttttttgta	gatgtctttt	780
atcaagttaa	gaaagtttcc	ttctagttct	agtttgccga	gagttttctt	ttttaaatac	840
atgaattgat	gttgaatttt	atcaaatgct	tctacattta	ttgatatgat	aatatcattt	900
ttctctaata	actatacatt	tatttaagcc	tcccaacagt	cttatgaggt	agatactggg	960
ttcacaccaa	tttaaaaaaa	aaaaaaaaaa	aggggnnnnn	nnnnnnnnnn	nnnnnnnnnn	1020
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1080
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1140
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1200

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1260
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1320
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1380
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1440
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1500
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1560
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1620
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1680
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1740
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1800
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1860
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1920
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1980
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	2040
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	2100
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	2160
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	2220
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	2236

<210> 1112
 <211> 1329
 <212> DNA
 <213> Homo sapiens

<400> 1112						
tttttttttt	ttaaaggata	ttcttagtag	actatatgtt	cacatgactc	gatattcaaa	60
tggtgcaaaa	gtcactccat	gagttatcta	gtgctcccca	ttgaaggtaa	aaabactac	120
cagttctttc	tggagatttt	atgcaaataa	aaagaaggga	cacttatgat	tctcttcctt	180
attactgggtg	gagtatgggt	cactccta	gtaggatggg	atgattgccc	caagctctgt	240
cgtgagtgg	tgattgacgg	ttttcttaag	ggaacaatgc	tgggaaagat	gataggcgcc	300
cgccactgac	ccctcccgc	tccctgcccc	tccagtaaac	tcccacacaa	aatagcagta	360
tgaggtgtgg	ggaaataatc	ttggcctccg	tctggtgtt	acttttgact	ctgccaccta	420
caagctgtca	cctgaacaag	tcctttccgt	tctgtgtct	tccctggtca	caagctctaa	480
gcctgaaccc	acactctggg	aatgaagcag	ggtagcggcc	tctgcttcg	caactctgag	540
gggtctacct	tgggtgggga	ggtggcctca	tccagagggc	tgctggaggg	ccaagacaag	600
gctctgggtg	ggaggtgtgc	tgagagggga	ttgcttatcc	caccaccagc	ttttctgggg	660
gaggtgggga	agtgatggtt	aaaaaatgga	gttcctgcta	tcagccatgt	cctgatgaat	720
tggaaagtcc	cdttctttct	cctttcctct	tgcattctct	gcctgcttcc	cctgctgccc	780
ctcctgtgac	atgtgccctc	tccagcaggt	atgtcacaca	gcaccccaag	ggaagggcag	840
tgtaacgctc	ttttccatga	tggactacca	cagccagagg	aagacaggcc	ttcccttctt	900
ttctagttct	ttttgggttg	aaaacaaggc	actcttattt	tcccttcca	agaagctggt	960
ggttcacacg	ggccagcaca	cgcattatca	aagacctagt	ttgtttctag	taaatgagtc	1020
cattgaagtg	ggagccttgg	ccgggcaagg	tggtcacac	ctgtaatccc	agcacttttg	1080
gaggccgaga	tgggtggatt	gagatcgaga	ccatcctggt	caacatggtg	aaaccctgtc	1140
tctactaaaa	atacaaaaat	tagctgggcg	tggtgacaca	cacctgtagt	cccagctact	1200
caggaggctg	aggcaggaga	atcgcttgaa	cctgggaggc	ggaggcaaca	gtgagccgag	1260
attgcgccac	tgcactccag	cctgggcgac	agagtggagc	tgtctctcca	aaaaaaaaaa	1320
aaaaaaaaaa						1329

<210> 1113
 <211> 115
 <212> DNA
 <213> Homo sapiens

<400> 1113						
gggcgagctg	gctcacgcct	gtaatcccag	cactttagga	ggccaagggtg	ggtggatcac	60
gaggtcagga	gatcgagacc	atcctggcca	acatggtgaa	accccatctc	tacta	115

<210> 1114
 <211> 3502
 <212> DNA
 <213> Homo sapiens

<400> 1114
 cccagctccc tccccgggac cctaagagca cccccacccc cacctactat ggctccctgg 60
 ccagggttctc agccttatca tctgctacac ccacgtccac ccaatggggc tgggattcag 120
 ggccaggggcc caggctcccc tcctctgtgg ctcaaacg~~g~~ ggacgacttc ctgttggaga 180
 agtggcgcaa gtattttcca tgaagcccc actctgggag gagccttccc acctgcctcc 240
 tcctcctcct ctcccttccct tttcttctac cctctttctc ctgctccttt tctcctcttc 300
 ctcttttgca tccctttgcc acacctctcc tcccccaacg ttaccatagt ccattggtcc 360
 attgactcta cctgtgggtc cctggggaag gagacattgc aggtggccct gcagccagga 420
 gttctatggg ttgggacggt ttagatggag cctggctgac tggggccttt attgtggatt 480
 ctggagctca gtagaaccta aaaggtcatt gtctgcatta tcttaatagc taccatcttg 540
 tgcaatacat gatgggcaa gcagtttata ta~~tt~~tttttt catttagttc ttaattctct 600
 gaggtagtaa ttatttatcc ccattttaca gatgaggaaa ctgagtttca gagagttaa 660
 gtagtatgct ccagggtacc cagttagtga gtaacaaact cagttgtgac cccatgtctc 720
 tgtgactcca ggattctgct tggaaacctct tggctgtgtg gctaattctt gcttctgagc 800
 caggtggcct cccaggtct cagccctgct gaggattatg aaaagccata aaacaaggca 840
 tttgagggga aacaaaatat ctcttttttg ccctaaccac aattgaaaag tagattaagt 900
 tttaaaaata aaataaatag gaccattcct gtctctcacc tgtctctggc ctccagccac 960
 tgaagctttt ccttttattg tttattctgg ggaggcaaga ggtgctgggtg ggcagggtgg 1020
 tgaccactgc ccattttctga gtccctgtccc catgctcttc cagctggcat cccgtctctc 1080
 agcaacagcc ccaccccgct ggagagcagg ctgggttaca tgtctgccag gtgagcctcc 1140
 ctgggggctg gttgggggtg aacgtcatag tccagctgct cactgtgcct ccctgggga 1200
 gtggacctct gaggggagca gacctcctgg tcttacccca agaaatcagg caggcctcta 1260
 gtccacagag ctgtccccgc ttgcctgggt ctgaggcgcc cctccatgac caggggaaag 1320
 tcaagttcac accgccaagg tccagtgagg gaagggtcgg gcttaccctg ccaacccct 1380
 gaggaagctg cctcttgcc cdgtgggga ggagtcagcc cctgggtggga ccctgcccc 1440
 gccccctcct ctagccccct cagccccgga gtctggcctt tgtctttgcc cttagctct 1500
 tgtttgcttc ctgtggctcc ctatttcccc cagtcctgct gagcaacatc tggagtga 1560
 gggacaccct gtggaggaga cagacgggca attatttaaa cctgttatta atttccatt 1620
 catctcatte cttgccaat gttttccct ctccctccct taggcagcta acagtga 1680
 cccccacta accctttggc caacttgaga gctgatgctg gccaaggatt gagttgacag 1740
 aggggagcgc tttgctgatg agattggcgg gagcaggcgg atgtgggagc ccagagcctt 1800
 gtatcagtag caccagcaa gggggcagag ggccctccacc actttcccgt ttgggaactg 1860
 ttctggaggg gcagatgttt tgaagctttg aattgctagg gacctcggag aagctgctct 1920
 ggtagctgag agaaagaggg aggaggtgac agatgtgatg gcctctgtgc atcctctgtc 1980
 acttcgcgc ctctctctc cctcgcctat gctctcctct tcttccag tgagcagctc 2040
 cggctcctac agcactccca ttccgaagtc cctgaggcgg gcagcaccac ctttcagggc 2100
 ataattgagg ccaaccggag gtggctggaa cgtgtcaaga atgacccag gttgtatcct 2160
 tttacctggt tcccaaactg ggctgggctg tggggactgt gcttgtgcc tgaggggctg 2220
 aggaggatcc tgttcagcct ttgaccttt catggccctt gcctggctat gccagcgac 2280
 tgcagttttc cttcaccttg tggccagacc tctcttctct tcaacacca agccaaaagc 2340
 tactttgagc ctctgcagc tgggccttga tgagcacaac agagtgaagg tgtatcgctt 2400
 ctgaggccct gagcaggggc ttggggcagc ccagcctctc ctcacccag accaagtgc 2460
 tgaggagctg cctgccttct tccatctgag aaagcacctt ccttccccct ttgacttgca 2520
 ggagccacca gggaccaggg ggttgagtgg aacagtaaag ccacacattc tgtgactata 2580
 taacctatct caggctaaaa tgtgtggact cgtacgagct cttgtcattg acatggcaag 2640
 ctgattggcg cggtgtatca gggcgaggag ccctttggga ggaaggagg 2700
 cgtagagga gctgccttcg gaggtcagg gagtcccttt ggagctggtt gtttcccttg 2760
 ccctgcagcg cactgctcgg ggctcccaag gaggttgtgt gtatggttct taattcatca 2820
 ggacaaagac cccagcatg tgtgtaccct gggaccgat ttctctgggc ccacatctat 2880
 ctccaatacc tcagcctcag atcagaccct ttcttttttg tctttcttct cttaattttt 2940
 aaatgcctct tttcttgagc attccatctc tctttttgac cctctcagga ttgggcttag 3000

ctgtccagag	ccctgccgga	gggtgctggg	ggctgtccct	ctgcaggcac	tgtgttttcc	3060
tcaggggctg	tcctcagaac	acccctcctg	ctccctgggg	ctcctcaggg	agccatttca	3120
gctggagtct	caggtctcaa	aaacagcttc	tccgggaggg	caaaaaaaga	ctgggttggc	3180
ttctggtcct	catgacggct	tttatcctcc	tgggacactt	tgggtatatt	catgggcatt	3240
gtttccatct	gtcttttcta	cctgtgccac	ccctgccctg	attccacggc	tgccctcaggc	3300
aggcaggcaa	ggagctaggc	cgggtgcccg	ccctggcagc	aaggggtctt	tgtgcagttg	3360
gagatgctgc	cgttgtggca	gagcgtcctg	cagccccgct	tccatcagca	ggctctgggg	3420
tgggggcttt	gcaggggatg	ctctctgatg	tttgttccgt	tgtttaaata	aaatgcactt	3480
atttttgttt	ttttttttgc	aa				3502

<210> 1115
 <211> 2649
 <212> DNA
 <213> Homo sapiens

<400> 1115						
cttgtaggta	ctcattgagg	tttatttgtgt	aagatgaatg	aatgttgcaa	attcctaaac	60
atgtgattca	gatgcccaat	cttactctg	tactttatga	aaatttttta	aagctatatg	120
atgttatatc	aaaatatgtt	gttatacttt	aggataatcg	gtgtgttagc	cctgaatttc	180
agcataagtc	ccattttttt	ccatgggagt	ctaggaaagc	tatatgttta	ttcagcagca	240
aaatacagtt	tggaaacttaa	ataaactatt	gatcaatttc	tggctcttatg	ctagaaggaa	300
taaagcatca	agaaaaagaa	aagattttgct	gtcaagacca	ggaaaaattg	acaatagagt	360
attagaatgc	aggaaatgag	gggaagtggg	aaggcagcaa	gtaggagaga	aaaagtgcag	420
ggacagttaga	aagtgaatgt	aggagctttc	tgacccatgc	acttcaggaa	cgcaattcat	480
ccctaaaatg	ctgtttgctg	tcttaggttg	caagtaacca	aattaaaacc	agtttgaaag	540
tagagtgaga	cagctgtcat	cataagagtc	atttgatctg	tttaaagggtg	gctgcttgta	600
tgcagggacc	aacagtcatg	ttcagggcag	cagctggtgc	acacttcaag	cacagaccat	660
aagagctacc	ccaggcagca	cctgctacca	atagtgc aaa	caactcagag	agactcgtt	720
ggcataaggg	aatactctat	cctttctgag	taaagagcaa	gtagaactaa	aggtttcaca	780
ttttaaacat	actttacatt	cctcctcttc	tggggctcaa	gcctactttt	gggccaaaagc	840
ggagttaga	tctgtcttag	agtcctcgga	gcagcagttg	ttcctgaaag	ttcctttttg	900
catctttgtg	cctcatgag	tggcttacaa	gtcaaccaga	cttctccccct	gacttttgat	960
gtgtaagagc	ttgtgtttca	aatgggtttg	gttttcttaa	tgtcacccta	ggttggtgga	1020
aaggagagta	aatggaaatg	gggggagcag	ggccccctgg	ggagggttaa	acagatggaa	1080
gtcaattgtc	tcttgagaat	agaggaggct	attgagtttt	cattccaca	tctgctcctg	1140
ttctgtcagc	aaagaacaag	cactactctc	cagcaattgc	tttccactgg	actccccccac	1200
ctcggcctcc	ctacaaaaac	ctagggatca	acttagttca	ctccaaatta	gaaaatttaa	1260
tagtcatattg	tttcttcttg	tccacagggg	gaacctattt	ctttccttct	ttcaaaaattg	1320
cccaggctct	gtgaagggtt	attaacaccg	gaaagaaata	catttttaata	agcttaaatic	1380
tcattttctac	atgaaaccat	cagatttttag	tactgtgata	ttttggctcc	tctgtctttt	1440
aggctctgac	acccaaattg	ccataatgaa	gggtgtttcac	ttcttctcat	ttatttttat	1500
gggatctttt	attcccaaat	gccttttcat	cccagccaaa	ggggaaatg	ttgatagatc	1560
tgccatcaag	aaggtttccaa	agctggcctg	tcaggttttc	tgttttcttg	tttattatct	1620
ttgaactttt	gttttaaatg	ttttaaacac	ttatttacca	tgtaactaaa	tgtctgatag	1680
tattgaaaat	actttgtggg	ttttaattta	tttaatgctc	atgaaaccct	atgaggtagg	1740
tactgatatt	atttttattt	tactgatgag	gaaagtgaag	caaagagaag	tgaaatgaaa	1800
ggtagttagt	gatgggacca	gggtttggac	atgggcagtc	tggctctaaa	atgtatgctt	1860
ttactacta	tgtaatgctg	cctcacaaac	aacttgtctc	acaaattgat	attctggatc	1920
agaggatgtc	gactggcccc	caaatgtatt	ttgtatggt	catacacagt	tcagaagttt	1980
taaaaattta	catagaaatc	tgcattttcct	gacttctttt	gaaaatggga	ataccaaaaca	2040
tcatttaggt	tgaattccca	atacggcaac	aacagctgag	caacaagcag	ctggttagac	2100
taggcactcg	ctctccaatt	tccacagctc	ccaccaatgc	agatcatagt	atcgacttaa	2160
atttcctgcc	tgcccttagag	aagcttctga	gcttgtgacc	tctattctag	ctgctctatg	2220
aatggacgct	gccccagtac	agcgaggacc	tgtcgcaaaa	tgcatttctt	agtcttcaat	2280
acttattcct	ccttgtaact	ggatttctgg	taagttatgt	ctcatgggtg	atctgccccca	2340
aagatggaga	ctgaatggca	gtgagtcact	cgcctggcc	tccattgttc	tggagaaggt	2400
tccagccaca	tggttgatgt	cagctgggtt	tccagagcca	gagctgggtt	gcgggacaga	2460

cacacctgca	tctaatagtg	aaaggcaaaag	ttgaaaggcc	aagaccagcc	tgaggtctga	2520
gggaccaagg	gcttcacaga	ggccagaagt	tcagaggtgg	acataaaaagg	tgtaggaga	2580
ataaggaagt	gaaaaagaaca	tagtacagtg	tatcagagga	ggagctccag	gctggcaaat	2640
atcactccc						2649

<210> 1116
 <211> 2649
 <212> DNA
 <213> Homo sapiens

<400> 1116						
cttgtaggta	ctcattgagg	tttattgtgt	aagatgaatg	aatgttgcaa	attcctaaac	60
atgtgattca	gatgcccaat	cttactctgt	tacttttatga	aaatTTTTTTa	aagctatatg	120
atgttatatc	aaaatatgtt	gttatacttt	aggataatcg	gtgtgttagc	cctgaatttc	180
agcataagtc	ccattttttt	ccatgggagt	ctaggaaaagc	tatatgttta	ttcagcagca	240
aaatacagtt	tggaacttaa	ataaactatt	gatcaatttc	tggtcttatg	ctagaaggaa	300
taaagcatca	agaaaaagaa	aagatttgct	gtcaagacca	ggaaaatttg	acaatagagt	360
attagaatgc	aggaaatgag	gggaagtgga	aaggcagcaa	gtaggagaga	aaaagtgcag	420
ggacagtaga	aagtgaatgt	aggactttc	tgacccatgc	acttcaggaa	cgcaattcat	480
ccctaaaatg	ctgtttgctg	tcttaggttg	caagtaacca	aattaaaacc	agtttgaaag	540
tagagtgaga	cagctgtcat	cataagagtc	atgtgatctg	tttaaagggtg	gctgcttgta	600
tgcagggacc	aacagtcatg	ttcagggcag	cagctgggtgc	acacttcaag	cacaagccat	660
aagagctacc	ccaggcagca	cctgctacca	atagtgcaaa	caactcagag	agacctcggt	720
ggcataaggg	aatactctat	cctttctgag	taaagagcaa	gtagaactaa	aggtttcaca	780
ttttaaacat	actttacatt	cctcctcttc	tggggctcaa	gcctactttt	gggccaaagc	840
ggatgttata	tctgacatag	agtcctcgga	gcagcagttg	ttcctgaaaag	ttcctttttg	900
catctttgtg	cctcatgcag	tggcttacaa	gtcaaccaga	cttctccccct	gacttttgat	960
gtgtaagagc	ttgtgtttca	aatgggtttg	gttttcttaa	tgtcacccta	ggttggtgga	1020
aaggagagta	aatggaaaatg	gggggagcag	ggtccccctgg	ggaggtttaaac	agatggaa	1080
gtcaattgtc	tcttgagaat	agaggaggct	attgagtttt	cattccacac	tctgctcctg	1140
ttctgtcagc	aaagaacaag	cactactctc	cagcaattgc	tttccactgg	actccccac	1200
ctcgccctcc	ctacaaaaac	ctagggatca	acttagttca	ctccaaatta	gaaaatttaa	1260
tagtcatttg	tttcttcttg	tccacaggga	gaaccatttt	ctttccttct	ttcaaaattg	1320
cccaggctct	gtgaagggtt	attaacaccg	gaaagaaata	cattttaata	agcttaaattc	1380
tcattttctac	atgaaaccat	cagatttttag	tactgtgata	ttttgggtccc	tctgtctttt	1440
aggctctgac	acaaaaattg	ccataatgaa	ggtgtttcac	ttctctcat	ttatttttat	1500
gggatctttt	attcccaaatt	gccttttcat	cccagccaaa	gggagaaaatg	ttgatagatc	1560
tgccatcaag	aagggttccaa	agctggcctg	tcagggttttc	tggtttcttg	tttattatct	1620
ttgaactttt	gttttaaatg	ttttaaacac	ttattttacca	tgttaactaaa	tgtctgatag	1680
tattgaaaat	actttgtggg	ttttaattta	tttaattgctc	atgaaaccct	atgaggtagg	1740
tactgatatt	atttttatatt	tactgatgag	gaaagtgaag	caaagagaaag	tgaaatgaaa	1800
ggtagtgagt	gatgggacca	gggttttgac	atgggcagtc	tggctctaaa	atgtatgctt	1860
ttaactacta	tgtaatgctg	cctcacaaac	aacttgtctc	acaaaattgat	attctggatc	1920
agaggatgtc	gactggccccg	caaattgtatt	ttgtatggct	catacacagt	tcagaagtgt	1980
taaaaattta	catagaaatc	tgcattttcct	gacttctttt	gaaaatggga	ataccaaaca	2040
tcattaggct	tgaattccca	atacggcaac	aacagctgag	caacaagcag	ctgttttagac	2100
taggcactcg	ctctccaatt	tccacagtcc	ccaccaatgc	agatcatagt	atcgacttaa	2160
atttcctgcc	tgcccttagag	aagcttctga	gcttgtgacc	tctattctag	ctgctctatg	2220
aatggacgct	gccccagtag	agcagggacc	tgctgcaaaa	tgcattttct	agtcttcaat	2280
acttattcct	ccttgtaact	ggattttctgg	tatttatgt	ctcatgggtgg	atctgcccc	2340
aagatggaga	ctgaatggca	gtgagtcact	cgccctggcc	tccattgttc	tggagaagggt	2400
tccagccaca	tggttgatgt	cagctgggtt	tccagagcca	gagctgggtt	gcgggacaga	2460
cacacctgca	tctaatagtg	aaaggcaaaag	ttgaaaggcc	aagaccagcc	tgaggtctga	2520
gggaccaagg	gcttcacaga	ggccagaagt	tcagaggtgg	acataaaaagg	tgtaggaga	2580
ataaggaagt	gaaaaagaaca	tagtacagtg	tatcagagga	ggagctccag	gctggcaaat	2640
atcactccc						2649

<400>	1119						
gaggctctgg	tcataatggc	gaccacactt	ttattgaata	tctgttgtgt	actgtccagg		60
tcttcacatt	tgtcacctca	tttaattctc	atgttaagcc	tgagtggaaa	gcattatgaa		120
gcccatttga	ggaaaagaaa	gagtgaagtt	caagggcaa	agtcactctg	ccagggtcct		180
ttgccaaatg	acagctggca	tggaaactc	ctaaggctga	ttcctctatc	ctccttctcc		240
taacagcact	tcaggggcaa	cttctcctc	tatcttttct	ccactcacca	tcaaagaagc		300
cctcaatttc	ccaggattct	aggacatttc	cctaagggtg	gggtgggtgg	acaggtagta		360
agactgatgc	cttttaactt	tccaagacct	ttctttatct	cctgagatga	ataaatagt		420
ggcaatgggg	tgtgggggat	tggtgaacac	agaacaggaa	ctggcagcat	gcagctggca		480
ggaggggagct	gtgatggccc	caccctctgt	aggaccactt	aatcctaagc	aggggcaaaa		540
gctctagcag	ccaccattaa	ggaaaaactt	tgaattca	cacattgtga	agcctgccag		600
tccccgccag	gtgaagagct	catggtatcc	accttcaggg	ctacttttta	ccccaggggc		660
cttgtctgcc	cgggcctggg	tacctgggct	gctctgtaag	gcaggtaggg	gtgcttacc		720
cactctcaaa	aataaaccaa	gctgtcctga	gtgtccagca	ggagggcagc	ccaagctctg		780
ggggcagcgt	gggtgggagg	aggtcctaca	ggtgggtggc	gcgattatct	gccttgatg		840
aagccctcca	gcacacggtc	actgcctct	gacaaccagt	agccagtc	ggccgcaca		900
gccccaatga	agatggcgtt	gaacaccaag	tcgcccttag	cagccagcgt	ggccagtga		960
cagatgatga	tgccaaagaa	catctgctgc	agcaccacca	actcgtcttc	tgtcatctct		1020
gagaagaagc	ctgctgactc	tgcagaggag	caagagatgc	agcctggcac	tcgatccct		1080
gttcttggtg	gttcttgagg	tctccccaga	actcccacac	acctgatcat	catggccacc		1140
aggcctgccc	agcaagccag	gcacactaca	tttactgctc	aaaaccaccc	tgcaaggggc		1200
agttaccatc	cctgtctcac	taaatgggaa	agtgaagctc	agagagtaa	aggggttggg		1260
cttgccaag	ccatgtgggt	gacaagttgg	gggcagagca	tttatctagt	gtatgagtct		1320
cgttccacgg	tcagactgtc	tggattggga	tcccagcttt	gcgacttgct	tgccatatag		1380
ccctgggaaa	gtagcttcat	ctctctgcat	cttcattttt	acatatgtag	agtggggatg		1440
agaacccaac	ttccagcgtc	gggttggttc	aggggttaaa	tcagttaaga	tggggaatgc		1500
acctagaaca	gcacttgaca	cagtaattgc	tggggaaatg	gtccctgcca	tcatcgttgt		1560
gattaccctg	catctcacca	caccccccgc	ctaggacagc	tctcagcagg	ccagggcaaa		1620
cactgggtccc	attgatatga	tgaagaaaac	ggttaaggag	gcagactgat	ttgatgccag		1680
gtctgattcc	ctttgtacct	tggaaaggtat	aaggctgctg	agagccaacc	tggagatcag		1740

atgtagagcc	cggctctcagt	gcagcctcca	gggggctggg	tggcagtagg	gatggggcag	1800
ggcctggagc	tgccactgct	acctggggaa	ggggcttgcc	tgccttctct	ttgaatgagg	1860
acctcccctc	tcccgcacca	gggctcacct	gggatctgct	ccttcacaca	gatgccttcc	1920
atctgcttgt	agccctcggc	acagatgcag	cgataaccgc	cctcgggtgt	ttcacactgc	1980
ttgttctctc	ccggacacac	ctctgtctca	cactcatcca	catcttgagg	ggagggaggg	2040
gtcagagtcc	tgctagggcc	ccccaccag	caccagact	ccatcttgct	catctctcaa	2100
cactcccctc	tgcccttgcc	caggcaacat	tccacccttc	cttccccccac	ctgcccata	2160
tccagcctct	tcaccattca	tgctgggtga	ggcactccca	ggtgcctgtg	tcccatcagc	2220
aggagactca	ccgagacact	tggagcccac	ctgctgatag	ccagggctac	acttcttaca	2280
gcgacctggc	cctgccccca	tgcagcctag	gcaggccttg	gcacagtctg	gagagaggag	2340
agaaagatga	gggtgagatg	tgcacctagg	cccaggggag	ccacgctcca	gaagcggagg	2400
cctgggggtg	ctctgaagcc	tgagaagggg	aaggtttgga	gggacaggtg	tggagcagct	2460
cttctctcac	tcctcacgtc	ccctcctctg	cagaagtaga	cactgacctc	ggcactcata	2520
ggagccctca	gtgttcacgc	agaattgggt	agctccacag	ttggctccct	ctgtgccaca	2580
ctcatcaatg	tctgcagaga	ggtgagcagg	gtgagaattt	caatccctat	ttagtaggga	2640
agctgaagcc	agagccgttg	gggaatgggt	ttgcctggga	ttaaatggta	tggcagagac	2700
tgaacgtgtg	ctaccaacac	agaagcagac	tagctggact	tcaggctgcc	cagccagaga	2760
ccacatttgc	caacctgtct	tgaagctaag	tgtgtccctg	tgattgagtt	ctggccaaca	2820
ggatgtaaac	aggagtgatg	agctccaccg	ttagcttggt	cttaaaacaa	tgcttgagct	2880
cctcaatgca	ctttctttcc	cttdccctt	cctgagtgtc	ggcatgtggg	acacagagat	2940
gcccaggact	cagcttcaac	catgcagaca	acgcccagg	ggatgattgt	gcagtaagtt	3000
acaggaataa	tctgggtact	ggaatgatta	tgactagcag	agctcccctg	ccagcctgga	3060
ctactcactt	tgggactgta	atatgataaa	aaaaataaaa	cctctaccct	ctagatctt	3120
tttttttttt	ttgagatgga	gtttcgctct	tgtcacccag	gctagagtgc	aatgggtgtga	3180
tcttggtctca	ctgcaacctc	tgcctcctgg	attcaagcga	ctctcctgcc	tctgcctccc	3240
gagtagctgg	gattacaggc	acctgccacc	atgcctggct	aaatttttgt	atttttagta	3300
cagacagggg	tttgccatgt	tggccaggct	ggtctcgaac	tcctgacctc	aggtgatcca	3360
ccccacttca	gcctctcaaa	gtgctgggat	tagaggcgtg	agttagctac	cacaccagc	3420
caacctctat	actctttaag	ccacagtctt	ttggggattt	ttgttacagc	agcttagcct	3480
ttacttttag	ctatataagt	ggctaggctg	ggaccaaac	aagtcttgaacc	cagggttct	3540
ctgaccccaa	gttcagtgtc	ctcattctcc	tagccaaccc	ttcctcattt	tttttttttt	3600
tttttttttt	ttttgagatg	gagtctccct	ctgttgccca	gactggagtg	cagtgggtgcg	3660
atctcggctc	actgcaagct	ccgcctccca	ggttcatgcc	cttctcctgc	ctcagcctcc	3720
tgagttagctg	ggactacagg	caccgcgccac	cacgcccagc	taattttttg	tatttttagt	3780
tgagacaggg	tttcaccatg	ttagccagga	tggctctgat	ctcctgatct	catgatctgc	3840
ccgccttggc	ctcccaaagt	gctgggatta	caggcgtgag	ccaccgcgcc	cagccccttc	3900
ctcaattttt	aggacttggc	caaagtaacg	cctctcccaa	gaagctttc	ctgattcccc	3960
atcaccactt	ccactgaact	agatcagagg	catctctcac	tgtacacagg	gactatacta	4020
cacagtacct	gtgtactgga	ctgtaagtat	ctggttactt	ttctgccttc	ccagccaggt	4080
tgagatctcc	atgaaggtgg	agactaggct	agtctagccc	aggcttgtgt	tgagagaata	4140
aaggaccaag	cccaggcccc	tgaccatctt	cccagacctc	gctagggccc	cacttaccta	4200
cacacttgag	gtgatgcagg	gcccagccct	tcttgccattg	caaacagttt	gattcctcag	4260
gtcctgagca	tggggcacag	gggccccaa	aagctgggtg	gaatgggggc	agcatgagga	4320
tgggcaggca	ggtgccccat	ctgcccctgc	ccagtgcc	accttttggc	tacctaccg	4380
aacataccag	atggctggcg	ttgcgttctg	cctcaaagta	gccaaggcca	cactggccac	4440
aggcctcacc	cccgtagccg	gcttggcagt	cacagtgcgc	gctgccccct	cgtgtccctt	4500
ctccttcaca	ctgcccgtag	ccaccgcagg	gcctctctgt	tccccagga	caggctgtgg	4560
gaagacacca	aaccaggtga	ggtcatctat	acaaccttga	tatacaagat	aatattttct	4620
ccctctccct	ctccctctcc	cttgcccttc	ctccctcccc	ccctccccctc	ccccctcccc	4680
tttccctctc	cctctcccca	tggcctccct	ctccctctcc	ccatggtctc	cctctccctc	4740
tctttacacg	gtctccctct	gatgccaage	tgaagctgga	ctgtactgct	gccaatctcg	4800
ctcactgcaa	ctccctgccc	tgattctcct	gcctcaacct	gccgagtgcc	tgcgattgca	4860
ggcgcgcgcc	accacgcctg	actggttttt	gtattttttt	ggtggagacg	gggtttctgct	4920
gtgttggccg	ggccggtctc	cagctcctaa	acgcgagtga	tccgccagcc	tccgctccc	4980
gaggtgccgg	gattgcagac	ggagtctcgt	tcactcagtg	ctcaatggtg	cccaggctgg	5040
agtgcagtg	cgtgatctcg	gctcgtctca	acctccacct	cccagccgcc	tgccttggcc	5100
tcccaaagt	ccgagattgc	agcctctgcc	cggccaccac	ccgctctggg	aagtgaggag	5160

cgtctctgcc	tggcggccca	tcgtctgga	tatgaggagc	ctctctgcca	ggctgcccag	5220
tctggaaagt	gaggagcgtc	tctgcccggc	cgccatccca	tctaggaagt	gaggagcgtc	5280
tctgcccggc	cgcgaccccg	tctgggaggt	gaggagcgtc	tctgcccggc	cgccctgtct	5340
gagaagtgag	gagccctcc	gcccggcagc	cgccccgtct	gggaagtgag	aagtgtctc	5400
gccgggcagc	cagcccgctc	gggagggagg	tgaggggggtc	agccccccgc	ccggccagcc	5460
gccccgtccg	ggaggtgagg	ggcgccctctg	cccggctgcc	cctactggga	agtgaggagc	5520
ccctctgccc	ggccaccacc	ccgtctggga	ggtgtaccca	acagctcatt	gagaacgggc	5580
caggatgaca	atggcgggtt	tgggaatag	aaaaggggga	aaggtgggga	aaacactgag	5640
aaatcggatg	gttgctgtgt	ctgtgtagaa	agaagtagac	acgggagact	tttcattttg	5700
ttctgtacta	agaaaaattc	ttctgccttg	ttgtccataa	gatctatgac	cttatcccca	5760
accctgtgct	ctctgaaaca	tgtgtctgtg	ccactcaggg	ttaaattggat	tagggcggt	5820
gcaagatgtg	ctttgttaaa	cagatgcttg	aaggcagcat	gctggttgag	agtcacacc	5880
actccttgat	ctcaagtacc	cagggacaca	aacactgcgg	aaggccgcag	ggtcctctgc	5940
ctaggaaaac	cagagacctt	tgttcacttg	tttatctgct	gacctccct	ccactattgt	6000
cctatgaccc	tgccaaatcc	ccctctggga	gaaacaccca	agaatgatca	ataaaaaaga	6060
caaaaaaaca	aaaaaaaaaa	gataatat	tctgtctgc	atatcagtaa	acatttttgg	6120
agaagaaaat	taattttaat	gacataatat	ttgtccataa	aactgacatt	tacttaacca	6180
atttctctct	gtggaacaat	tagattttac	agacctttta	tttattttat	tattttattta	6240
tttattttat	tattttattta	tttttagtga	cagggtctcg	ctctgtttcc	caggcaatga	6300
catgatcata	gctcactgca	gcttcgaact	cctgggctca	agcaatcctc	ccacctcagc	6360
ctaggggaac	aacaggctgc	actaccatgc	cccactattt	tttttttaag	agacagggtc	6420
ttgtcttact	accaggctg	gtctctcaaa	ctcctggcct	caagtgatcc	tcctgcctca	6480
gcctcccaaa	gtgctgggtt	tacaggtagc	agccactgga	ccaaatat	tccttttttt	6540
ttttgagaca	gagctctgct	ctgtcgccca	gctggagtg	cagtggcatg	atctcggtc	6600
actgcaagct	ccgcctgccc	ggttcacatg	attcttctgc	ctagcctcc	agagtagctg	6660
ggactagagg	cgccccccac	catgcccggc	taattttttg	tatttttttag	tagagacggt	6720
gtttcaccat	gatagccacg	atggtctcga	tctcctgacc	tcagatcca	cccaccgcag	6780
cctcccaaag	tggtgggatt	acagggtgtg	gccaccgcgc	ccagccaata	ttttctttta	6840
caaagactga	atttgccatc	ttttagtcta	gctctttatc	tgtagcttca	ggaagactg	6900
ctctaaaaga	ggctggtagt	aagttcagct	cttgctccag	gactgtgtgt	gaggatggat	6960
ggcgatcatg	gaggctccag	gtcagcacc	gccccccccc	aggaaggtac	catagtccga	7020
tctggcatgg	gaaatgaagg	ggctgggaag	tctatcatt	ctttagtaca	tgatgataac	7080
tatactgcat	atgactcagt	ctagcccctg	tgtttctctc	aagcctttcc	ccactgattt	7140
gcccactctc	ccagccctgt	caggcaggca	agaactgagg	tccagagaag	tttatctgag	7200
tagcctgagt	tcacacagcg	aactagggac	agagccagga	ctggatccct	ggactcgggtg	7260
gtccctccc	atccccaaga	gcaacttaaa	aactcacgaa	ggcaggaggg	cccgaagggtg	7320
cctgcggggc	agcagagctt	caggaatct	gagcacagcc	actggaagag	gtccggggcc	7380
tcctgtctgc	tgaggcaggg	gcagggtgga	gggaggtggg	gaggaggtgc	tgagatagtg	7440
tcataaagtgc	tgttcccat	cccccatgcc	gaatctgtg	attcaaccca	gcttggacat	7500
aagacccaaa	aggccatctg	accaatgccc	tttccccatt	tggcagaagg	gtaaactgag	7560
gctcaaagtg	gagcgcaagt	ccccgggcaa	gttcttagca	gacctgggtt	tgggaaggagc	7620
acaaccagga	catgggcccc	agcatgcacc	cccctgcttc	tcggccaaat	caggccttat	7680
caccaggcct	cacctgtgac	ccacttccag	ggaaggccct	ttgccactca	cttgtgaaac	7740
caccagctct	ccaccagctc	ctcactcagc	tcagcagggc	ggtggcactc	gaagtctgac	7800
ttgtctgaca	caccctccag	cacctctacc	aggcgggtct	cactgatcgg	acagggcagg	7860
gctggtggga	aacatgcccc	accccaacca	ccaccctcct	caagtctctc	tccacccttc	7920
ctcgtgcggt	gaaaaatatca	aaggagaggc	catgaggtat	aatggaaggg	gtcatgggtc	7980
tgggaagcag	agagacctgg	gttcaaatct	agtggtagat	ctagtgggca	agtcacttaa	8040
cctctctgaa	cctctttgtt	ttgtcatctg	taaaatgggg	atgacaatac	cttccctca	8100
ggtttgttgt	aacatacatc	agttcctgca	tctgagcaat	ggaatataat	acccttgctg	8160
ggtagatatg	gctaaaaata	catcctataa	caagtgttgg	cagggatgtg	gagaaattag	8220
aatctctcca	caatgcagg	gggaatacaa	aatggcatca	ccactgtgga	aaagcagttc	8280
ctcaataagt	aaaacatgga	attgccatag	gacctgccaa	ttccactact	ggatatagac	8340
ccaaaagaat	ggaaaacagg	tgttcaaacg	aaaacttgta	gacaatgttc	atagcagcac	8400
tattcacaac	agccaaaagg	tagaaacaat	gcagatgtcc	atcaactgat	gcatggttaa	8460
acaaaatgtg	gtacagccaa	atgagaatat	tattcagcca	taaaaaggaa	aggtattga	8520
tatatgctac	ggtatgggtg	aaccttgaaa	acattatgct	aagtgaact	agccagacac	8580

aaaaggccac	atatttttatg	attccaatga	aatcagcaaa	tccataatth	ctgcttgact	8640
aacacaaatt	agtgtattgcc	aagagccgag	ggaaggggag	aatagggagt	ggctgtgtaa	8700
taggtatagg	atthtttggg	ggggtaatga	aaatgttctg	gaactacata	gtgggtgatgg	8760
ttacacaaca	ttgtaaatat	tattaaatgt	ctttaatggg	aaatthttta	tgtgtattht	8820
accacaaata	tatacatata	tatatatata	tacgcatata	tatacgaca	tatatatacg	8880
cagacatata	tgcacatata	tatacacaca	catatatata	tacacaaca	catatatata	8940
cacacatata	taaatatttg	atgtcttata	tcctgtatth	aaagggctg	gcacagtgcc	9000
tggcatatag	gaggtgattt	aaaaaagcaa	gcaacgcagg	agccattaca	aagctggaag	9060
tgctctggg	gttgtcttag	ccaatcccct	cattcctgaa	tgaggaaact	caggcccggc	9120
gaaggaaaag	agaaaatgac	caatgttaca	taataacaaa	acctthttt	ctagtgggca	9180
tcccagttaa	gcctthttcca	cacttctatg	aaataggcaa	accaggtatt	aatatcccca	9240
thttacaggt	gaagaaactg	tggctctgag	aggttaaaga	ccgacaacca	ggtctaactc	9300
tgagcctthg	ctgactcctc	ttccatctga	ctthgaaaag	ctggagggtc	cagggtctgc	9360
ctthctgtat	ccttcccctg	cctthcttht	catactgact	atataaatgg	ctthctgtat	9420
tacatatatt	gactatataa	tggctthctg	tatccttccc	atggctthct	ttacatactg	9480
actatataat	gacaactctc	aaattcctgt	ttccaattcc	tactctthtc	tgaattccag	9540
atthgtatgg	gatgtctaag	ggacatttca	gccaataacg	ttcaaagaac		9600
accacatccc	acccctcccc	taaaccttct	cggthtcgca	tctcaccatc	ttagaaaaca	9660
gctgcactac	tcacccagtt	gctcaggccc	aaaatctagt	aagcatctth	tattctactg	9720
thtctctata	cccataatga	atctatcacc	aggtctatth	gttctctctg	caaaatatac	9780
ccagactgtg	acctcttcat	catgtcctcc	actagatacc	acactagctt	gtgttgccct	9840
tgtacctaga	tgatgcactt	gcctcccaaa	ctggctctcc	tgcttccctc	gcccttgccc	9900
cttacaatcc	gtthgtctaca	tagcagtgtg	agtaatctth	aaaggtgtag	agaagacagt	9960
atcactthtt	ctgtcatag	ccttccaaga	gttccctatt	acactccaaa	aaaaatctaa	10020
actctthtct	gtagccctcg	aggcttaagc	ctthgcttcc	accttctagc	actctccctc	10080
tggctcactc	cactccagcc	acttctcaaa	tacaccaagc	tcagtcccat	cctctgcccc	10140
attccctccc	tgctacatag	ctcgcttctt	cacttctctg	ctctctgttc	aaatgccaaa	10200
ccttgaacac	cttgccctccc	accgtcctgc	agtctaccgt	gcttcaactgt	ttgttcttca	10260
tctgacataa	tattattcac	ttactcattc	actgcttgct	ttctctacta	gaatgtgagc	10320
tccaggaagg	gggcattthg	cttgccctgt	ttactgctat	actatagatg	ttcagtgtca	10380
thtgttgaat	gaataagtgc	tccccaagag	ttcctagccc	tacaccagca	gagcagagat	10440
ttggcgggga	ggggaatata	caccccttcc	cccagcagcc	ccttacctgt	ctthgtatth	10500
ggacaaattc	tcttccctccc	aggcagtgtt	tccacctcca	aagttgtccc	ggatggthct	10560
ctccaggccc	tggaacacaga	aaattagtaa	tagctaagta	cagtgcctgg	cacatgctag	10620
cacttcaactg	ttctactgac	taggaaactg	aggcacagaa	aggcaacctg	cctagggcca	10680
tacaactagt	aagagaccaa	gatgaaactt	aaatccacgc	agatttgcat	cccagagthc	10740
cccactctaa	atcgctgtgt	tccctcttaa	cgaggctgcc	ggtgcaccca	cctthgtaaa	10800
gctgtcaacc	agtcctccgc	aggatgaca	cggatggggc	tgaggcgggg	gagaagactg	10860
gggaggtgga	gagggctgga	gccagatagg	tcctgggagg	ttgaggaaga	ggctgaggcc	10920
ccagagcaca	gctgggacta	ggcccttcgg	gggccatggg	gccatcttht	cccaggctgg	10980
ggacctgcag	atagaggggg	tggagaggct	tcactgaagg	agtcaggccc	cacgcgagaa	11040
agaaaaaggt	ctgttctaaag	gtgccgtggc	gctgggatct	gcgttattac	aagcaaaaga	11100
ggccaaactg	ggtattgcag	gggctgtggg	gatgggtggg	gaaaggcgca	taagatgcaa	11160
ttccagaaga	gaaataagtt	atcctcgcta	gcatgggggt	gagaggaaagt	ggcctcgct	11220
ccttgacaag	ggggcagaag	tcagcctctt	gtctgagggt	ctgataaaga	atattagggg	11280
ccggatccgc	agaattaggg	agaagagatc	agattccaag	tactgaagga	gaggaggcca	11340
gaggggttgt	cttggggggag	gtgtccggaa	ccccgggctt	ggaggggagga	gcccggatcc	11400
ggatatgaag	ggaagggatc	agattcaggg	cctcgagaa	gggcaaaggc	acggccccacg	11460
agccggcaga	gaaggatcca	gaccctcgta	ggccacggag	aaggaaagaag	cgaccgcccc	11520
agcccgcggg	cgccgtgggg	cgtctcctca	ccgcgtcgct	gccacagcct	gcgtaaaaacg	11580
cacaaccccc	accccgcgccg	cagtccaggg	ggcggagctt	gccggcagc	caatggcgac	11640
gggccaactg	ccattacgtc	acccacgccc	agccaaccag	aggcggcacc	gagctgcacc	11700
tgtccgggct	ttaaaggggc	gcggggctag	ggaacgacgt	ttgccagccc	cgccactgaa	11760
acggagacgc	gtgtggggcca	catgggtaga	aaaacagcgt	ctgccttht	ttaaagtccc	11820
tccccgccc	caggtcccgc	ccctggctcc	accccgcgct	ccggcgcggg	agtcccccggg	11880
ggatggaagt	agctatccag	ggctggctga	agggcccggg	acacttgctc	cgctctctct	11940
tggagccgccc	cggaacgcgg	ggcgcgaggc	tgctgcaggg	cccccaggaa	gtctggcagt	12000

tgggagggca	gtgtgaagac	gggcacggtg	cggaaaag	cgggtacggc	gtccgggtgg	12060
agcagcctgt	cgaagcaggc	ccccacgtag	ctgccggg	cccggccctg	caagaagtcg	12120
ggcagcacgc	agctgagcga	ggcgcggaag	gcgtcgtg	ggcgtg	cccgggccc	12180
gacaccccat	cctgtagcca	ctcgctgcac	agcgccaccg	caccgggaga	gaagagcaag	12240
accaccacgc	cgccctcctg	cagggctctg	cgccgctg	cgtgaaacca	agccacgggc	12300
ccctgcgcgc	tcagttcacg	acggctccac	aggtctacg	ccacgcgcag	cggcagctgg	12360
cacagggccg	acgccagggc	gcccaccagg	cgctcgaaac	ccgagtcac	ggctgagtag	12420
aggagcagag	ccgcgcggcc	cctggcggcc	gctccggag	aaaacagatg	gggagggag	12480
aggtgagctg	gcacaggcct	ggctccccgg	ggcgccct	ccgcccagcg	cttgctccca	12540
ctcacccccc	gagcgcagct	aaactttcaa	gagcctcagc	caccctgtta	ggggagaggg	12600
gcggaggcag	ccagtgcagc	cggccgcgcg	tttccctcgg	agaactccca	cagccactct	12660
ggtcctcccc	caggggaatg	gggagccggg	aagcgtcac	ctttcgcgtg	atcctttttg	12720
agaaggagga	tgagggaag	cgcagcggca	aagagtaggc	aggccagcca	cacgagggcc	12780
cagcgcttgt	ggatgtctgg	gagaccaga	gaagaagagt	tagaaactta	ccctccacag	12840
agaagaaaaa	ctgagactta	acagaaatga	attgggccgg	gtgcggtggc	tcatgccttt	12900
atataatccc	agcacttcgg	gagggcggag	cgggcagatc	acgaggtcag	gacatcaaga	12960
ccatcctggc	taaacagggtg	aaaccccgct	tctactaaaa	atacaaaaaa	ttagccgggc	13020
gtggtggcac	acgcctgtaa	tcccagctac	tccggagggt	gaggcaagag	aatcgctt	13080
actcgggagg	cagaggttgc	agtgcgcga	gatcgcgcca	ttgcactcca	gcctgggcga	13140
caggggtgaga	ctcctctcaa	aacaaaacaa	aacaaaacaa	aaaacgaaga	aatgatttgc	13200
ccagagtcca	cagcacagtg	tcagagccag	tggatgaata	tagctccatc	tgtttagggg	13260
tctttgaata	agtaatgtca	cctctgcct	cagttttctc	ctctgtaaag	ttgtacctat	13320
gtcatagggt	tggtgtgagg	actaaatata	ttaatacata	ttaaagcttaa	cacaatgtgt	13380
taatacatat	ttaacacaat	gccgagcatc	ttaagtgccta	aaatgtcagc	tgtttttctc	13440
ccctaagcta	gggttgctgg	gcccttgatc	ttgctgtcct	gggtgtctgc	aatacctgg	13500
tgccctgcc	ctgtcttttt	tttttttttt	ttacctccaa	ttgatttgcc	ttgaattgat	13560
tcatgacagc	ctcagagatc	ttttaaaaaat	ataaatttgg	gccaggtgcg	gtgactcacg	13620
actataatcc	cagcactttg	ggaggccgac	gcgggcggat	cacgaggtca	ggagttcaag	13680
accagcctgg	ccaagatggt	gaaaccccat	ctctactaaa	aatacaaaaa	ttagcagggc	13740
atggtggcag	gcgcctatta	atcccagcta	cccgggaggc	tgaggtagag	aattgcttga	13800
acccgggagg	cagaggttgc	agttagccga	gtaacgcgcca	ttgcactcca	gcctgggcaa	13860
cagagtgcga	ctctgcctca	aaaataaata	aaaaaataag	tgtatatba	tatatatatg	13920
tgtgtgtgaa	atatataaaa	atltgatcgt	agctcctgct	gctctcaaca	taagatccaa	13980
atcccttaca	tgtctcctgc	atctttatct	catgacagaa	acctgcctgt	ccaagaccct	14040
gtatctctac	ccccttcccc	tagctcagtc	ttcagagttt	tgctggaacc	ttccccctga	14100
gccccctacc	ctcaccacca	cccaggtcag	gtccacattg	tatgcattta	cagcactgaa	14160
cacttggtgg	tgtctcagta	gctcccactt	taaatgtaag	tgactggctc	atgtcttgct	14220
agtcttctga	gggtggggcg	ggggcaagga	tttatatttt	tggtgttctc	gcgatccctg	14280
caagctctca	tcattttttg	agtgaatgaa	ggaatgaccc	tgttttatc	tgatctcagg	14340
gaaggacaag	gccattgcat	gtgctgtgcc	caagagtgg	ccctgtcaag	atccccactc	14400
ctggtacaga	aaggaaaggc	agttcttaca	atactacat	ttgtccatgg	ggcaggccca	14460
tagcgctccc	aagtcacgt	cccatagctg	taagatacaa	acagaaccaa	atccagggca	14520
ccagccaggt	gttccaatat	tcaccaagct	ctggtggcct	gatctccaaa	tttccagcat	14580
caactatgca	tatctccccg	ctaaggttcc	tgacagtgct	ctgcctttgt	gctgtgcccc	14640
ctgactagg	tatgacttct	tccataccaa	atctggctta	taggaagaaa	ttcttcccg	14700
aagctctccc	tggaaaccaa	aacttagcac	ctgtagggt	ggttatctgt	ttatgggtgt	14760
ctagccaaca	gtgtgctcct	tggggatagg	aactgtgctt	cttctactct	taactttccc	14820
agggctgaac	ataaaataag	cctaaataga	cagtaggtga	gtgctagttt	taggcctgtt	14880
gcccctaggc	attgaggtgg	ggcccttctt	ccaccagctc	acctgcagac	actggcctga	14940
ctgcaggtct	tgtagtaagt	actctccaag	gcgagctgcc	ctctgccaa	ccaaaggatg	15000
ggggcactgt	tacctggagg	tagcacctt	agggcagcac	ctaccaggct	acagctgggt	15060
agaatgaggt	agaggggact	gggagacttt	gtgatgccg	ctgaatatgg	ccctgggtctg	15120
agtcaccccc	catgttccca	gagaccggca	aggggtggat	ggagtgaata	tttgaggcca	15180
gatgtgagat	gcatttggag	agatctgtgg	aggagggctg	cccagtccta	accgtggagg	15240
ctttgctggg	tagtgaagta	cagccactgg	gttccaaggc	acagagggat	ctgttgcct	15300
gggggcctcg	tgtctccaac	agtagcacat	cgtctttgag	aggccccagg	gagctctggaa	15360
ggggtgagag	gccactctga	ccaagaccca	tccttgctgg	gattggccac	ttgctgcct	15420

cccatgccct	gaccttcacc	cctaggaggt	ggccctgccc	cagctgcccc	caggcccaac	15480
tcaccagccc	acaagcactc	ctgcagctgc	agcttctccg	agctgttcac	ctgctgggaa	15540
gagaccatgg	ttagggccac	taaga aa agc	aaaagccaaa	ggcagaaaga	ccagaatggg	15600
gcaggcaaca	gaaggcctgt	tgggttggga	atctgcactc	aatctgacct	gaggcagatg	15660
tggattcaag	gctgggtgat	taggaatcac	tacatctttc	tctgccccag	ccttgtgaga	15720
tcattctgtat	aaagcgtctt	ctgaccctaa	agctgttttt	atgtcttacg	gagcat gtt	15780
cccctctcat	ctaacccttct	caaagagatt	cctttctcac	atgaccaccc	tgctaaaaat	15840
tgcaacccca	gtcccacctt	atccccttcc	catggtattt	gtatgcaatt	ttaagatact	15900
atatgattta	tttacaatgt	ctgttgccctg	cctttctcca	ttacaatata	agttctatga	15960
gggtagagat	gttaggctct	atcacaagtg	cctaaaacag	tgacttgtgc	tgctcaaaaa	16020
atcttgaatg	agtgaatttt	tttttttttt	gagacggagt	ttcactctgt	cgcccagtct	16080
cactctgtca	cccaggctgg	agtgcagtg	cgccctctca	gctcactgca	agctcagcct	16140
cccaggttca	cgccattctc	ctgccccagc	cttcctagta	gctgggacta	aggtg ccca	16200
ccaccacgac	cggctaattt	tttgtatttt	tagtagagat	ggggtttcac	catgttagcc	16260
aggatggtct	tgatgtcctg	acctcgtgat	ctgcccctct	cggcctccca	aagtgtctgg	16320
attacaggcg	tgagccaccg	cgccctggccg	gatgagtga	tgctcttata	atcacccctt	16380
gaaactgtag	agcaagccat	tctacaggtg	tggaaataga	ataaggatag	caataataaa	16440
agtggctaca	tttatggagc	atttagtctg	taccgattcc	taaggggaag	cacttctctt	16500
atttcattgt	cacaaccact	ccatgaggta	gttactgtat	tatcatctgc	attaaacaga	16560
tgaggaaact	gacgttcaga	gaggtgaagt	gagttgcccc	gggtccgcg	cactactaaa	16620
gtaggcagtg	gaactcccat	agaggaagct	ggcaaccact	atgcttttag	ggcccaagaa	16680
ctaagacccc	cttggctggg	gggtctgccc	aggtccagcc	tccagcccag	cactatgcac	16740
ccctttctga	cctgaacaca	gaggttaggg	tggcctttca	gcaatgggaa	ctcgagaacc	16800
ttctgtggaa	agagaggaat	gggtgggac	acaaaagggg	acccccggtt	ccccactctc	16860
ccctcaccac	gggagtgcc	ctctgcttca	cttacgtcca	cagtgcggtt	ctcccaggaa	16920
agcgggtggga	ccagtggctg	gcaggggtcc	ccaccgagag	cccgccagca	cagtgcgct	16980
tctgcgggca	gcgagcacgg	tgctgccagc	agccagctct	gcagggtcag	cagtcgcagt	17040
cgggcggctt	gccagagggt	ctggtgtgcg	cgggggtctg	caaggaaagg	gcacagtcac	17100
cgcaggccag	gtacccatcg	ctcgcaacac	cccaacccca	gccccaggcc	ggtcgggtca	17160
ccctccctga	aggggcagat	gttcgtccta	acggagtcag	gttcacagag	ccacacctgg	17220
aaaggaaatg	gggtctgct	caggtccctc	ccatgggcat	gtgcctggcc	ctctgctgga	17280
cagtggggat	gcactcattc	agcaggtatt	tcacaaacac	ttgctgggtc	ttcctgcctt	17340
ttacaaaacc	tggaggtgct	cacatctatt	cttcagcaa	acataatgct	gggcaactgg	17400
aacatcttca	ttaacaaact	tttttttttt	tttg g atag	agtctcgctc	tgctgcccag	17460
gctggagtg	agtggtgcaa	tcttggctca	ctacaacctc	cacctcccag	gttcaagcga	17520
ttctcccatc	tcagtctcct	gaggagctgc	gattacagga	acatgccaca	acggccggct	17580
aactggttaa	tttttgtatt	tttagtagag	atggggtttc	accacattga	tcaggctgg	17640
ctcgaaactc	tgacctcaag	tgatccacc	gtctcagcct	cccaaagtgt	tgggattaca	17700
agcgtgagcc	accgcgcctg	gccatttcaa	cagactttta	atgagtgcct	accattgtgt	17760
cttagcagta	tggcaagcac	aagagacctt	ggataattaa	atttttatta	tttttttatt	17820
ttttgagatg	gaatctcact	ctgttgccca	ggctggagtg	cagtgggtgtg	atctcagctc	17880
accacaacct	ccgcctcctg	ggttcaagtg	attctcctgc	ctcagcttcc	caagtagcag	17940
ggactacagg	cgcacatcac	catgcctggc	taatttttgt	acttttagta	gagactgggt	18000
ttcactatgt	tagccaggct	ggtctcaaac	tctgacctc	gtgatccacc	caccttggcc	18060
tcccaaagtg	ctgggattac	aggtgtgagc	cactgtgcct	ggtggataat	taattttaat	18120
tcattccaca	atcactttgt	aagcacctgc	tatgtgttgg	ggaatgtgct	aagttctaag	18180
gacacattca	tttattcttt	caacagacat	ttcaagagtg	cctattatgt	gcatagctct	18240
atgctaagca	ctagaggtaa	tac a taatt	tatccatcaa	gcctttagtt	aggaacaccg	18300
actatgtggc	aggcactgtg	tttggcaatg	aagccattta	aatcacagca	tacatctcat	18360
gaacatctgc	tgtgtcctat	ggctgtgtta	ggcagtaaca	tttattcact	cattcaacag	18420
tgaggacctc	atactgttac	cttgttttaa	aacaaaacaa	ggctgggcgc	ggtggtcac	18480
ccctgtaatc	ccagcacttt	gggaggccaa	ggtgggcgga	tcacgaggtc	aagagatcga	18540
gaccatctgg	ccaacatgct	gaaaccccg	ctctactgaa	aatacaaaaa	ttagccgggc	18600
atggtggcat	gcacttgtag	tcccagctac	ttgggaggct	gaggcagaag	aattgcttga	18660
atccaggagg	cagagattg	agtgagccga	gatcacgcca	ctgtactcca	gcctgccaat	18720
agagcgagac	tctgtctcaa	aaaagacaaa	aaaacaaaaa	aaaaacaaaa	acacaaaaaa	18780
acaaaaaaca	agtaggcgct	atgtgcaagg	ctcttgcaaa	gctattacat	ttgaattaga	18840

tatgatttgc	ttgccttcaa	ggaaatcaca	aactcacact	tgtagtaaggataaaaatatt	18900
tatataaatt	agtaaaacac	tcattcattt	cataaatattt	attgagcatc	18960
aagaagaaat	tagatgccca	aataagaaag	taagtgattg	agctgggtgt	19020
cgccacaaaa	cattaaaaaa	tgaaaacagg	ctgggcacag	tggctcacgc	19080
agcacttttg	gcggccgagg	cgggtggatc	acgaggctag	gaatttggga	19140
caacatggtg	aaaccctgtc	tctactaaaa	atacaaaaat	tagctgggca	19200
tgcctgtaat	ctcagctact	tgggaggctg	aggcaggaga	atggcttgaa	19260
ggaagttgca	gtgagccgag	atcacgccac	tgcactccat	cctggcaaa	19320
tccattaaaa	aaaaaaaaaa	aaaaaaagga	aacaatttagc	caggcatggt	19380
tgcagtgcca	gctgcagagg	ctgaggcagg	aggatccctt	gaacctggga	19440
gcaatgagac	gtgttcacgc	cactgcactc	taccatgggt	gacagagcaa	19500
ctaaaaaaa	aaaaaaaatt	taagaaaata	aaagaaatga	agtataaat	19560
agatagaagt	gcaaggggat	ttggagctag	gagaggccgg	gtggttgggg	19620
ggaaggaggt	gagggcattt	gaggtaatgg	gaaccacctg	agaaaaggca	19680
tgtatcttgg	taagttagctc	cactggatgt	aacaatgtt	tcataagagg	19740
gaaaatagag	tgaaaaggca	ccgttggggg	cagaatatgg	gccagaatg	19800
gatgggaagg	gaggggagct	tggagggtgt	gaaacagtct	agaaaacaga	19860
ctaagcttga	ctgagatgga	gaggaggggg	aaagaaaatg	agagacatta	19920
taagatggat	gagacctgat	gaccaattaa	atgtgcaatc	agcggctggg	19980
catgcctgta	atcccagcac	tttgggagga	cgaggcttgt	ggatcataag	20040
cgagaccatc	ctggctaaca	cggtgaaacc	ctgtctttac	tgaaaataca	20100
tgggcgttgg	tgcaggcacc	tgtagtccca	gctctcagg	aggctgaggc	20160
cgtgaaccca	ggagaagcag	cttgcagtga	gccgagatca	cgccacggtg	20220
ggcgacagag	aaagactctg	tcttaaaaaa	aaaaaaaaaa	aaagtgcatt	20280
cacagtggct	catgcttata	atcccagcac	ttggtgggag	gctgaggtgg	20340
taagcccagg	aattcagaac	agcctgggta	acatagcaag	accccgctct	20400
aaaaaaaaaac	tagctgagta	tggtagtgct	caccagtagt	tccagctact	20460
agacaggagg	atcacttgag	cccatggggc	tgaggctgca	gtgtgccatg	20520
tgcactccag	cctgggcaac	agagtgaac	cttgtctaaa	aaaataaata	20580
ggaagaggaa	agagccagca	tatttaagcc	tgggtgtggc	acacattctt	20640
catgaggctg	ttactattat	tattccatt	ttacagatga	gaaacaggct	20700
aagtgacttg	cccaaggtta	cacagctagc	aaatggcaag	agccaagatt	20760
caagttcgta	gcacatgctc	tgcccggccag	gggaacacaa	agacagaact	20820
ggaaagggtt	caaggagaag	gtgacatttg	aatggggcca	tgaagaataa	20880
tgtggaggat	cagggagagc	attcagggaa	tgtaatagac	agaaggcata	20940
ggtcaaggga	gggccagcca	ccaggggag	ccacagtctc	cacctcaatg	21000
agaatgggtg	gaccaggaag	gcagggatca	ccccatcat	catcttccca	21060
ggcaccagca	tagactctgc	tcctacctga	atacagaggc	agggaaaccag	21120
ttcaaggtaa	tgatctgcgg	tccagtctgt	ggaacaaata	aaggaaggag	21180
ataaggagga	agaggaggag	gccaaagtca	aggaaaccag	gaaggcagaa	21240
caattttccc	ttgcttgggg	tgagtcctct	tcaaggatcc	tctctgatat	21300
cctttgcaca	ggcatcggcc	tacagtggga	atggacttgg	gaagggggag	21360
gtttttgtgc	caccggggtt	ttggggggcc	ctggacctga	ttccagtaca	21420
gaagtgctgc	tcctcagaga	cattcagaac	cagatgcacg	ttgtcaccat	21480
gttgagccag	ggcagggctg	g			21501

<210> 1120
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 1120					
tttttttttt	cctttttttt	tttttgagat	ggagtctggc	tctgtcgccc	aggctggagt
gcagtgggtg	gatctcggct	cactgcaagc	tctgcctcct	ggggttcaag	ccattctcct
gcctcaggct	cccagtagc	tgggactaca	ggcgctgcc	accatgccca	gctgattttt
ttgtattttt	tgtagagatg	gggtttcacc	gtgttagcca	ggatggtctc	gatctcctga
cctcgtgatc	cgccagcctc	ggcctcccaa	agtgtctggga	ttacaggcgt	gagccaccgc

gccccggcc

308

<210> 1121
<211> 1024
<212> DNA
<213> Homo sapiens

<400> 1121
gcgggcgctg caggtcgctc agcgacgtgc gcgtgcgcgg gccggtccca cagcacgtag 60
tggaagcacc cgacggggca gccgctgcgg cttctggcag ctccctcgac agcttctcca 120
ggggttcact caagatcagt tggaaacctt ggcgccacgg gctgtcatca gtggacagtc 180
tgcccctaga tgagttgccc agcacggtac agctactgcc tgccccgacc ccagcccctg 240
attctaccgc cgctcggcag ggggacggcc agggagaggt ccagccgcgc ggcaagcctg 300
gggaatcccc cagcgcctcc agtgatacca tcgagctttg aagagcggtc ctgacgcagg 360
gccaggaccc tgcccgatgc ccacatggca tggcctactg ggagttga gcctttaaaa 420
aatgggcatc ctggccaggc gcggtggctc acgccaggaa tcccagcact ttgggaggcc 480
gaggtgggtg gaacacgagg tcaggagttc gagatcagcc tcctgggtctc gaacatagcg 540
aaacctcgt ctctactaaa aatacaaaaa aattagccag gtggcacacg cctgtagtcc 600
cagctactcg ggaggctgag gcgggagaat tgcttgaaca gggaggcaga ggttgcagtg 660
agccgagacc acgccattgc actccagcct gggtgacaag agtgagactc cgtctcaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaggcatc cccaggcctc tctacctgac ggcaaccccc 780
gggggacagc caggtttgaa ctacccccac ccccatgcg ttttttgctt ttaatatattc 840
tatttttttt tcagccggca ttttgcacag aggcggtgtc ttatgcgga tacagggtgg 900
gtgtgcatgg attcgggcat gaagaacagg gagcagggtc cccagactcc ccaacgtgga 960
gtgatgagcc tcgcttgtct agattgtcct ctttgtgcca aagaaataaa cccttaggac 1020
ttgg 1024

<210> 1122
<211> 7365
<212> DNA
<213> Homo sapiens

<400> 1122
gaaagcgtgt tggccaaatc tgaatgatga aagccaatta caaactagaa aatgaaaaca 60
gaccccagat gcaaggagat gagacagtta aatttcttc ctcttttcta atctgagagg 120
tttcatgttg aagaaaaatca gtgttggggt tgcaggagac cttaacacag tcaccatgaa 180
gctgggctgt gtccctcatgg cctgggccct ctacctttcc cttgggtgtc tctgggtggc 240
ccagatgcta ctgggtaagt aaaatatattg aatatgtgtg tgggaatgga gctttgctta 300
cctttgggaga aaggaccaga aggaaagaaa catggactaa ttctggccct ccaaagaagc 360
agtattcagg tggataaaga agggtaggta taagaaagt ttgtgtacag gattgaatta 420
ctttctgaat ataaaaatct tccatcctga aagtcacctc tgatcatgat atcctctcta 480
gctctaattc caactctttt ctttactttg tgagacaagt tttcttaaaa gaatagtttg 540
cacttgctat ctccacttcc tcacttctca cagctcctc aatgcttgca gcctggcttc 600
cactggaatt ggttttgtct agggcacaac gatctctata ttgactgggt tatggcatgc 660
ttttcagttc atatcctgct ggacttctct gctgcaactg gctctgttga tcacttactc 720
cttcttgcat tctctactac cctggcttcc atggcaccat tttctccttg tactacatgg 780
acttctcttg atcccttaat agcttctctt ctcttcccct taaacactag tgttctctat 840
agttatagcc ttgcctctgt actcctcttt ctttacacaa tctccttcat gagcttattt 900
gtctgtttaa tttttgccac tatactctg tatttaagag tcccaaatca tatccccaac 960
cctaaccatg cttttgagct tcacattcaa atatcaagct tcataccaga catatctacc 1020
tacatatctc acaagtgtct ctgcaccat tgactagagt tgaacttata tgtccttttg 1080
gcccctgctt catctaatc attttccact ttctgatctc agctaataac accagatct 1140
acccttaciaa ggccataaac ctcaaaaaca acccagactc ttccttcttt ttcattctct 1200
aaatctgatc aatcattagg tttggccaat tttaccttct aaattgttca tagaagcagt 1260
cccttgctg gatcatcact aatgtcttag gacaagccct catcctctat gacttgggct 1320
attccagtaa attcctaact aatctcctcg tccaaacctt gtgttcttga aatgaattct 1380
gtaccctgca gacagagtaa tttctaaaac tcaagtttac cagcccaaat tctttatcat 1440

ggcacaaaag	gccaaagcagc	ctctactttt	accctctcag	ccttgtaact	tatgctctaa	1500
taaatctcaa	tcagttcata	tttacatact	cacacaccag	actcttgccctgtctctaagg		1560
ctttgcttat	accactatct	ctacctgaaa	tgagttcttt	ccatggcacc	ctactctcct	1620
tctccttgca	aatgtgtagg	tacccttaaa	gactcagctt	aaatggatc	ttttccaggt	1680
agcttttctt	gaatgcttct	ttctgctcca	atggctgctt	gcgatacatt	tttcttatta	1740
taatattttc	ctacttatgc	tgaataata	ttttcatcta	cctgtgtctt	ccactaaatt	1800
gagagctatt	tgtgggtagt	gacaatgttt	ttttgttttt	gtcttgtgat	aagaactgca	1860
gacttggaat	cagatactcc	tgtttcaagc	ccctcttcta	tttaccagct	ctatgtcact	1920
ttagaaaatc	actttttcta	tttctgggtc	agttttctca	tttgagaat	gaaaataata	1980
atacctacca	cctaagggtt	attgagttag	ttcccagtaa	cccaacaaga	ttttattttta	2040
ttttattttta	tgttttgaga	cagggtctcg	ctctgccacc	caggctggag	tgcatgtgtg	2100
caatcactgc	tactgcaac	cttgacctct	tgggcttaag	caatcgtcct	atctcagcct	2160
cccaagtagc	tgggaccaca	ggcaagtgcc	accaggcctg	gccaattttt	taaaaaatta	2220
tttggttgaga	cagggtctct	ctatgttccc	caggctggtc	tcaaactcct	gggctcaagg	2280
gatectccca	cctcaacctc	ccaaagtgtc	gtgattataa	gcatgagcca	ccacgcctgg	2340
ataagatttt	atttttaaaa	agaaaaaatg	gagaggag	agagcacaga	tgagtgcag	2400
tggaggaaact	gaaaagaggt	agcattacag	tgaaggagc	ggagaaagga	tggaaagaaa	2460
acacctggta	ctgatgtgat	gagaattagg	aagtagggag	gggtcttggg	aaggacatg	2520
acaaaatcaa	agaagaacgc	tgggctattg	ggagtggag	agaataaagg	caagtggggc	2580
acgaaatgac	agtcagatgg	agtgaagaag	tatgcacatg	tgaatggcca	tgaggctgga	2640
ggaggggggag	aatagttagg	gagataaaga	gcagtcccag	agaagggaga	aatgtcactt	2700
cccttgcccta	ggtctaccat	gaaggtaaaga	gataggttga	ggagatgtgg	tgagaaatgg	2760
ataattctaa	atttcaatct	ggagcaaaga	atgttccac	agttactaat	atggactggg	2820
aggaggggaa	aaaagacaga	gaaagctctg	tgccactgcc	agggaaaatt	caagtggcag	2880
aggacattaa	agtaaagatg	gctgaaaagt	gaagacctgc	aagggggagg	aagaaaggag	2940
gagagacact	gctgggtact	gaaagctctt	tgtagataa	catattcaag	gctgaggagc	3000
caagtgaagt	ttgggaaaat	cagaatatga	aagaaagtcc	ccgaggaagg	tctgaggact	3060
gaagtagacc	atatttgcac	agtgaagtaa	aaagaacatt	gattttggac	tcagacacac	3120
ctgcctttcc	cgatccattg	cttagtctct	ttttaagctt	tgggtatgtt	aatttggttt	3180
tctaagtgtg	tttctttaag	attataaatt	gaggataaag	tcacctacct	ggaaagtttg	3240
tgaggttgaa	gttagacact	gcacacaagt	gctagcaggg	tctggcaccc	agtgaacatt	3300
agaatctgat	gtctcccttt	cattcctgtc	ctatgcctcc	ctgcttcgag	ttaccattgt	3360
ctttgctcct	ggtttcccg	accagcagct	ggatgtcatg	ccggtgagtt	tcaccattt	3420
ttcattctct	cccctccctc	ttctccaaac	cacagtgc	ttgctgagag	cacctggacg	3480
ccagtgaatc	aagggtcaaaa	ctatccccct	gagacactct	caggggtctt	tccgaaaaaa	3540
aaaaaggttt	tgatgtctta	ctagtctcat	tctaaaaagg	atgattatcc	tgggagatgg	3600
aggaaccttg	tctcttttct	caagtttga	tcatcatctt	ctggttctcc	ctgggccatt	3660
ccctctctag	ctgccagttt	tgagacgctg	cagtgtgagg	gacctgtctg	cactgaggag	3720
agcagctgcc	acacggagga	tgacttgact	gatgcaaggg	aagctggctt	ccaggtcaag	3780
gcctacactt	tcagtgaacc	cttccacctg	attgtgtcct	atggtgaggt	ccgggaagg	3840
cctgagcagt	gccccaaacc	ccttctttca	gcctcagagc	ccaccagga	aagtgtccct	3900
aggaaattgg	ctatgggatg	aggtacttcc	ttcccagctt	tcagcccaca	gcaaccaggg	3960
tgctctaagt	cctagggcct	agggaaagtg	tcccatactc	ccaaccaggg	gtgagagttt	4020
acctggaccc	tcagagaaag	tttaggggag	taggcattgt	tgggggtggc	cccaaggga	4080
ggccctgggt	gacactcagc	tctttctctg	gaccatagac	tggctgatcc	tccaaggtcc	4140
agccaagcca	gtttttgaag	gggacctgct	ggttctgcgc	tgccaggcct	ggcaagactg	4200
gccactgact	caggtgacct	tctaccgaga	tggctcagct	ctgggtccc	ccgggcctaa	4260
cagggaattc	tccatcaccg	tggtacaaaa	ggcagacagc	gggcactacc	actgcagtgg	4320
catcttccag	agccctggtc	ctgggatccc	agaaacagca	tctgttgtgg	ctatcacagt	4380
ccaaggtgag	agctagaagc	agcattgtca	tggcagggga	gggtaaggag	agacagggag	4440
cccaaattgt	ctttcttttag	cctggaggga	gcaagatcat	caacagacta	tggagcaggt	4500
tgtgtgcaaa	tgcccaagtt	gggcttcgaa	agggacgaga	cctcagcctt	ttgaagtc	4560
ccagcccccac	tcagagtcca	gcatagttcc	taccaccag	atctatgctt	cctagtgtct	4620
actgattggg	tgtctggaca	actatcagat	ttgccatct	gtgatcttt	cctagtctctg	4680
tctacttaca	gaaagaactt	gacagattca	aatggaatct	aagagagccc	attcctgctg	4740
gaaacagggg	aaaggaagta	tgactcccca	agtctcttca	cctgcatgtg	tctacctgta	4800
tataagatgg	ctgagctctt	ctttctctgc	tatctttttc	ccagaactgt	ttccagcgcc	4860

aattctcaga	gctgtaccct	çagctgaacc	ccaagcagga	agcccatga	ccctgagttg	4920
tcagacaaag	ttgcccctgc	agaggtcagc	tgcccgccctc	ctcttctcct	tctacaagga	4980
tggaaggata	gtgcaaagca	gggggctctc	ctcagaattc	cagatcccca	cagcttcaga	5040
agatcactcc	gggtcatact	ggtgtgaggg	agccactgag	gacaaccaag	tttggaaca	5100
gagcccccag	ctagagatca	gagtgcaggg	tgagttcgca	tcagagtgc	ggttgtctgt	5160
ttggcatgcg	tgtgagtga	aaggagggat	aggataaatt	gacctgtgag	ctgggggttca	5220
gtgtgagcag	gttaagaagg	gacacagagg	gggcaggaac	aatggggccag	aatccctgat	5280
gatgagagac	agcacaata	gagaacttct	ccctcagact	gtgggtgcaca	cctcaccaga	5340
ccaagagctg	agccagctcc	acacctgctg	ccccacaagc	cttagcatcc	cccccaacat	5400
gctctctggg	catttatagg	aatttaatat	ctggaatgaa	gatgggatag	tctgaagtct	5460
atgttcaatt	ctgggagcca	ctgttaagag	gtgcaacttg	acctgaaaca	ctcccagaag	5520
aggtgtccag	ggtgataagg	gggcttaaag	tcatgtcata	tgaaaaataa	tggaaggggc	5580
tgagatgct	atcctgaaga	ggaggtgact	cagaggccag	cagaggtgtc	ctcaaaaagc	5640
tgaaggctgg	cattagcaca	aggaattgga	ctaattgtctt	atataataaa	gaggctgacc	5700
tagaaccagt	taccacattc	atgcttcagg	gaattagatt	cagccttgat	agagaaagaa	5760
ctggctaagt	gttatagctg	tccagtggtg	aagcctcact	gctgaagaat	ttcaaacaga	5820
agtggccaag	cttcagatta	aaatttggac	caggaggggac	actagagtcc	tcaagtcctt	5880
gctgccattg	ggccccacag	ccactttcag	agaacaagaa	agattggcca	gggatgggag	5940
ggaagggcca	gagtcagact	tcactcttgt	atgtgcctcc	tgccccataa	ttcaggtgct	6000
tccagctctg	ctgcacctcc	cacattgaat	ccagctcctc	agaaatcagc	tgctccagga	6060
actgctcctg	aggaggcccc	tgggcctctg	cctccgccgc	caaccccatc	ttctgagat	6120
ccaggctttt	cttctcctct	ggggatgcca	gatcctcatc	tgtatcacca	gatgggcctt	6180
cttctcaaac	acatgcagga	tgtgagagtc	ctcctcggtc	acctgctcat	ggagttgagg	6240
gaattatctg	gccaccggaa	gcctggggac	acaaaggcta	ctgctgaata	gaagtaaaaca	6300
gttcatccat	gatctcactt	aaccacccca	ataaatctga	ttctttattt	tctcttctctg	6360
tcctgcacat	atgcataagt	actttttacaa	gttgtcccag	tgttttgtta	gaataatgta	6420
gttaggtgag	tgtaaaataa	tttatataaa	gtgagaatta	gagtttagct	ataattgtgt	6480
attctctctt	aacacaacag	aattctgctg	tctagatcag	gaatttctat	tgttatatc	6540
gaccagaatg	ttgtgattta	aagagaacta	atggaagtgg	attgaataca	gcagtctcaa	6600
ctggggggcaa	ttttgcccc	cagaggacat	tgggcaatgt	ttggagacat	tttggtcatt	6660
ataattgggg	ggttggggga	tggtgggatg	tgtgtgctac	tggtcatccag	taaatagaag	6720
ccaggggtgc	cgctaacat	cctataatgc	acagggcagt	accccaacaac	gaaaaataat	6780
ctggcccaaa	atgtcagttg	tactgagttt	gagaaacccc	agcctaata	aaccctaggt	6840
gttgggctct	ggaatgggac	tttgtccctt	ctaattatta	tctctttcca	gcctcattca	6900
gctattctta	ctgacatacc	agtcttttagc	tggtgctatg	gtctgtctt	tagttctagt	6960
ttgtatcccc	tcaaaagcca	ttatgttgaa	atcctaatacc	ccaaggtgat	ggcattaaga	7020
agtgggcctt	tgggaagtga	ttagatcagg	agtcagagc	cctcatgatt	aggattagt	7080
cccttattta	aaaaggcccc	agagagctaa	ctcacccttc	caccatatga	ggacgtggca	7140
agaagatgac	atgtatgaga	acaaaaaac	agctgtcgcc	aaacaccgac	tctgtcgttg	7200
ccttgatctt	gaacttccag	cctccagaac	tatgagaaat	aaaattctgt	tgtttgtaag	7260
ctattcagtt	tgtgtatttt	gttatagtag	cccaaattgga	ctaggcagtt	ggcctctgcc	7320
acatgactga	gtttatgata	tgttaaaaat	actcataaaac	cagtg		7365

<210> 1123

<211> 2593

<212> DNA

<213> Homo sapiens

<400> 1123

tgggcacctg	taatcccagc	tagttgggag	gctgaggcag	gagaatgaat	cgtttgaacc	60
cagggaagtg	aggttgcagt	gagctgagac	cgcaccattg	cactctagcc	tgggcaacaa	120
gagcaaaact	ccgtctcaaa	ataaatacat	acatacatat	atgcatacat	acatacatat	180
atacggggat	taaaatagtc	tagtagtgac	acctgaacag	agagattgat	ccaagaaatg	240
aaacagaaat	tccggaagtt	gacctgaata	cacacacaca	cacacacaca	cacacacaca	300
cacacacgaa	ggcgtgaaag	actccatgac	cctcaaggaa	taagatgcat	tttttttttt	360
tttttgagac	agggtctcac	tctgtcacc	agactgggtg	cagtgggtga	ctatcccagc	420
tcagctctac	cctccatccc	cccaacctcc	cccaaccacc	ctgagctcaa	gcaattctca	480

tgcctcaacc	ctcagcctca	tgagtaactg	ggactacagg	cgtagcaccac	catgcgcagc	540
taattttttg	tatttttagt	agagatgggt	ctaaccatat	tgcccaggct	ggtctcgaac	600
tcctgagctc	aagcgatcct	cttgcttcag	cctcccaaag	tgctggcatt	acagctgtga	660
gccaccgcac	ctggccgcat	tcttctaaat	cacagtacat	ctggctccca	gtgccagggc	720
tctcagggca	gaaggtccag	tgtgatcact	tgcattggcc	tctctcccct	cctgagcttg	780
tgccagggcc	ccagggctga	cctggagaag	gaaaatggca	gaggggtgaag	atgggggtgc	840
tggtttgggg	accatcctgg	cccccttgt	cactgttgac	atctcttctg	cacagtggca	900
ttgctgggag	gtgcttactg	tgcctattca	aggggctggc	agccgcagcc	tactgcaga	960
tcagggactt	ggcttcccag	ttgaccacag	gtccaagaac	ctgcagggtc	cagcctcccc	1020
cccatcccca	gtcttcccca	ccctggccccg	gccctccagg	tgcaaaaaca	tgaggccccc	1080
tctccaggac	tgtgggagga	gcgtgtccct	cagactggcc	tgtgtcctgg	ctcctcttac	1140
cacctcttcc	acaggttgct	acctgcagct	gccccaggat	aaaggcaagg	ccagagagga	1200
ctcctgaact	cctgtgtgcc	tggggtggca	ggggcaaaca	tagccaactg	gtggcctgag	1260
cggggccatg	gtgaggacac	ccttggtggc	ttgtcccaca	tcaagctggg	aggtgacact	1320
gaggatgcat	tagtctgcag	cgtatgataa	aaacggcatt	tcaggccagg	cgcggtggt	1380
catgcctgtc	accccagcac	cttgggaggc	caaggtgagc	agatcatatg	aggtcaggac	1440
tttgagacca	gccttgccaa	catggtgaaa	actcatctct	actaaaaaaaa	caaaaattat	1500
gtgggttggg	ggtgtgcgcc	tgtaatccca	gctacttggg	aggctgaggc	aggagaatca	1560
cttaaacctg	ggaggcagag	gtgcaacga	gccgaaattg	caccactgca	ctccaggctg	1620
actccgtctc	aaaaaaaaaa	aaaaaaaaaa	aggcatttca	gttcaaatag	ggaaaggata	1680
catctttctt	tcttttctct	ttctttcttt	ctttctttct	ttctttctct	ttctttcttt	1740
ctttctttct	ttctttcttt	ttctttctct	ccttccttcc	ttctttctct	ttctctctc	1800
tttctctcgt	tctctcttct	tttttgagat	ggagtttcac	tctcgctgcc	caggetggag	1860
tacaatggcg	tgatctcggc	ttattattat	tctccatggt	ggtcaggctg	gtcttgaact	1920
cccaacctca	ggtgatccgc	ctgcgttggc	ctcccaaagt	gctggtgtga	gccactgcac	1980
ccggcttagg	atgcattttt	caatatttta	gtgtttgaat	aacgggctaa	cttgagaaaa	2040
aaataatttg	aatcacacat	cacaccaaaa	ataaattcta	ggtggatttt	aacactttca	2100
aaaattatta	ttattattag	tttagagaca	gggtctcact	ccgtcgctca	ggctggagtg	2160
gagtggtagt	atcatggttc	actgcaacct	taaactcctg	gcctcaattg	atcctccagc	2220
ctcagcctct	caaaggactg	gaactacaaa	catgcaccac	cacgcccagc	ctaggtgggt	2280
ttttaaaatc	cattcaaggg	cgggtgcagt	ggctcacacc	tgtaatccca	gcattttggg	2340
aagccaaggt	gggaggatca	cttgagccca	ggagtccgag	accggcctgg	gcaacatagt	2400
gagactacat	ctctacaaaa	aattttaaaaa	tgagccaggc	atgggtgtgc	acacctgtag	2460
tctctgctat	tcaggaggct	gaggcgggat	cattgtttga	gccaggaga	cagattgcag	2520
tgagctatga	tggcaccact	gcattggcagc	ctgggtgaca	aaggagatt	cagtctcaaa	2580
aaaaaaaaaa	aaa					2593

<210> 1124

<211> 149

<212> DNA

<213> Homo sapiens

<400> 1124

ggctgggtgc	agtggctcac	acctgtaatc	ccagcacttt	gggaggccga	gacagggtga	60
tcacctgaag	tcaggagttt	gagaccagcc	tggccaacat	ggtgaaacct	tgtctctact	120
aaaaatacaa	aagttagcca	ggcgtgggtg				149

<210> 1125

<211> 8996

<212> DNA

<213> Homo sapiens

<400> 1125

gacgggggtt	ggccatgttg	gccaggctgg	tctcgaactg	ctgacctcag	gtgatccgcc	60
tgctctggcc	tcccaaagtg	ctgggattac	aggcgtattc	catgtgcc	agcctgagtt	120
tctgtttaga	aacaacagtc	tatgatagta	taatcctctc	ttttttgtac	acagagtaaa	180
gaggacaaat	aggtgaaaga	ataaatgaaa	ggctggaatc	ccacttcccc	cgctgtccca	240

gggcatttga	tattgacgga	taggaggcag	caaaccactc	acagagccag	gaagaaatga	300
aggcgttggg	attgccagga	ggggaagccg	gctcggctga	aatacgctat	gaccatagca	360
aggagatact	gatggagaga	aaggaacaca	gagagggaga	ggtcacatct	tggaagagga	420
agattgttga	gagggggaat	gaggggtctg	ggaggggctg	cccatcagag	aagggacctc	480
agtgttgggg	tgactgtact	catttggaaa	ttgcgggtg	gaggggtatt	cgaaggctcg	540
atgcaaattc	gagaagccag	aggaagggtt	ttgggtgatg	ctcccaggat	gggtgggtcc	600
gatgggatct	ttggaggggg	tgtgtctagg	ttggctgggt	tcaggagggg	cttttgtgtg	660
ccaggcagag	aactgtcccg	aagagctgag	agtagagggg	ccaggagctt	cagggctgcg	720
gccagactgt	ggcccagagc	tcagatccca	aaggacccat	aggagaggca	ggggccactc	780
attcactctg	caagagacca	gcagaatcct	gaggagatg	ctgacaaatc	ataaaaagac	840
caagaatagc	cgggagtggc	ggctcaagcc	tgtgatccca	gtactttttg	agagggtggag	900
acaggaggat	catgtgagcc	caacagttcg	aaacaacct	gggcaacata	gtgagaccct	960
gtttccacaa	acattttcaa	aattagttga	gcatggtggc	atgtgcctag	tcccagctcc	1020
tcaggaggct	gaggaaagaa	gattgcttga	gcccaggaa	tagaggctgc	aatgagctat	1080
gatcatgcc	ctgcaactcc	tcctggggag	cagagctaga	ttctgtctca	caaaaaaaaa	1140
atttgtgggt	gccaagactc	aagaccatgg	gagctggtcg	ggcacagtgg	ctgacgtcta	1200
taatctcagc	actttgggag	gccaaggtgg	gtggattgcc	tgaggtcagg	tgttcaggac	1260
caacctggcc	aacatggcaa	aaccccgttt	ctactaaaaa	cacaaaaatt	agccaggcgt	1320
ggtggttcat	gtctgtaatc	ccagctgctt	ggaggctgag	gcaggagaat	cgcttgaacc	1380
caggaggcat	cggctgcagt	gagtgaagat	cgagacactg	ccctccagcc	tgggcaacag	1440
agcaagactc	tgtctcacac	acacaaaaaa	aaaaaaaaaa	aaaagactgt	aggagcatct	1500
ggtgggaggt	ggtggaggga	gaactgtggg	tttggaaagt	gcgcctccc	ccagcattg	1560
cgtttgaaca	ggaacagtta	catggagaac	aaccttacct	tgtccgacac	cctcagatct	1620
ttgttccagg	ccaggaatct	tttaatgaca	ggatcctctg	tgattagaga	gcagatgtca	1680
gtgtgagaag	caggacaggg	tttccgtggg	agcagcaggg	cagcgaggag	aagtgtgcct	1740
cccgggggga	agtctcagga	ttgtggccgc	gggtgaggtg	gatgggagag	gggagaatga	1800
ctttcactgg	gcaagggaga	gaggctcctg	ctctgagact	cccctgagaa	gaggccgaag	1860
gaggccctgg	gtgtgagaat	ctacaggatg	tagagctggg	aatcagccag	gacccccctc	1920
agcagacacg	gagggaccac	tgcagagtca	taaaggaatt	cccatcattt	ctcatgaga	1980
cagtacacaa	tcagggtgtg	accatggcct	tggtatcccc	cactatggat	ggagacactt	2040
aggtttagaa	aagtcagtaa	gagacattaa	gtttcagagg	gcacagctga	aaccactttc	2100
tttgtttatt	gattttgttt	ttctttattt	gatttttatt	tttatttatt	tattaattta	2160
ttttgagaca	gagtctgtct	ctgtgggcca	ggctggaatg	cagtggcctg	atcttggctc	2220
actgcaacct	ctgcctcccg	ggtttaagcg	attctcctgt	ctcagcctcc	cgagtagctg	2280
ggattacatg	catgagctac	tgtgcccgag	cttgggtttt	cttttgagac	agggtttttg	2340
tctgtcaccc	aggctggagt	gcagtgggtg	agtcataagt	cactgagcc	tcaaagtcct	2400
gagttcaagc	aatcctcttg	cctcagcctc	ccaacgtgct	gggatctcag	gcgggagcca	2460
ctgcgcctgg	ccgaaacca	agctttctta	tccaagcgcg	tgacctttat	caagttgacc	2520
taatccttta	tcatctccta	agtgtccctc	atgagtgatc	acttcacatt	cctcccacat	2580
ggagagctca	cccactgggg	cctatttttc	ccattggaaa	agtgtgggta	ttggaagttt	2640
cctgtttttg	gaaagaacag	gattggaggt	gctctctggg	gtgtcctcct	accaagcagc	2700
ctgtttgaag	cctcgtgggt	ctcaggggag	acgagcgaca	ctcgccgtcg	cttcagcttc	2760
atcttgaggc	cacacagcat	ctccgccacc	cagatctcct	caggctcagg	ggcgagcacc	2820
ttccgtggct	cctcctccga	ctcctcagat	ttgtcccacc	actccatctt	ccttttccag	2880
caaaaggacc	tatgcggggg	gctgggatct	accccagggg	ctgagtaaa	aaaccaggcc	2940
acggtgtaat	gcttctgcag	ttgatcacac	tagagccoga	cccaaaaccc	caaaccactc	3000
tccatcctcc	ccagcctcgc	agactgctgg	cttctccaag	ccatctttcc	ttctgtctgt	3060
ctcctctgct	gagctccatg	tgcgcctcct	tctcctcccc	attctcccgt	ttctctgtcc	3120
tcagaacact	tcctcatatc	cttccctggg	ccctggctct	ctgagtcctt	tttttttttt	3180
tttttttttt	gttgttgttg	ttgagaaaca	gtctgtcttt	gtggcctagg	ctggagtgtg	3240
gtggtgcgat	cttggctcac	tgcaacctct	gcctcctggg	ttccagtgat	tctcctgcct	3300
aagcctccca	agtagctggg	attacaggtg	cccaccagaa	cgccagctc	atttttgtgc	3360
ttctagaaga	gacagggttt	caccatgttg	gccaggctgg	tctccaactc	ctggcctcaa	3420
gtgatctgcc	tgccctggcct	cccaaagtgc	tgggattaca	ggtgtgagcc	actgaaccct	3480
gcctcagtac	ctccattctt	cccacacacc	ctcctcacgt	gctccttcct	gacttctggg	3540
cccgcccttc	cttctttttt	tttttttttt	gagacagcgt	ctcactctct	caccaggaat	3600
ggaatgcagt	ggcactatct	tggctcaaaa	caacctcttc	cacctggggt	caagcgatta	3660

tcctgtctca	gcctcccag	tagctgggat	aacaggcatg	cctggcta	ttttgtatcg	3720
ttagtataaa	tgacgtttcg	ctatatgttg	ctggttggtc	tcgaacaact	gacctcaagt	3780
gatccacca	tctcagcctc	ccaaagtaat	gggattacag	gcatgagcta	ccacacccgg	3840
ccttcgtttt	tcttttgaca	cagggttttg	ctctgtcacc	caggctggag	tgcagtgggtg	3900
cagtcatagc	tactgcagc	ctcaaagtcc	tgagttcaag	cagtcctctt	gcctcagcct	3960
cccaacgtgc	taggatctca	ggcgtgagcc	actgcaccta	gcccgaacc	aagctttctc	4020
atcccaagcg	ccaaccttta	tcaagtctag	cctagtcctc	tattgtctcc	taagtgtccc	4080
tcatgagtga	tcacttctga	gtcctcctgc	gtggagatct	caccactggg	gggcgtatct	4140
ttcccattgg	aaaagtgtgg	ttattggaag	tttcctcttt	ttagaaagaa	caggattgga	4200
ggtgctctct	ggggtgtcct	cctaccaagc	tgactgttga	agtccttgtg	gtgctaagg	4260
aggatgggtg	acactcgctg	ttgcttcagc	ttcatcttga	gcccacacag	cgtctccact	4320
acccaggtct	cctcaggctc	aggggcgagc	tccttctccg	gctcctcctc	agattcatct	4380
gaccactccc	tcttcctttt	ccagccaagg	gacctacatg	gggggctggg	atctacccca	4440
ggggctgagt	aaagaaaca	ggccactgtg	taatgcttct	gcatctgata	accttagacc	4500
ccgacccaaa	accccaaacc	actctccatc	ctccccagac	tcgcagactg	ctgacttctc	4560
taagccatct	ttctgatttt	ctcctctgct	caaccccatg	tgccgctcct	tccccccc	4620
attcttctct	ctctctgtcc	tccgaacgct	gcttcatgtc	cttccctggct	cctggctct	4680
ctgagtcctc	ccttttttgt	tttgttttgt	tttgttttga	cacagaatct	tgctttgtca	4740
cccaggttgg	agtgtagtgg	tgcaatctca	gctcactgca	acatccatct	cctggattcc	4800
atttattctt	ctgcctcagc	ctctcaggtg	gctgggatta	cagggtgctg	ccataatgcc	4860
cagctcaatt	ttgtactttt	agtagagaca	gggtttcacc	atgttgacca	ggctgggtctc	4920
aaactcctgg	cctcaagtga	tccgcctgcc	ttggcctccc	aaagtctctg	ggttacaggt	4980
gtgagccacc	gcacccagcc	tgaatttctc	cattcttccc	acacaccctc	ctcaggttct	5040
ccttctctgac	cgctgaccct	tcttttcttt	tcttttcttt	ttttttttt	tggagtgcag	5100
tagcgtgata	tcagctcact	gcaacctctt	cctcccagtc	tcaagtgatt	ctcctgtctc	5160
agcctcctga	gtagctggga	ttacaggtgt	gcaccactac	cacttggtca	atttttatac	5220
tttttagtaga	gatgggggtt	caccatattg	gccaggctgg	ccttgaactc	ctgacctcag	5280
atgatccgcc	cgctcgggcc	tcccaaagtg	ctggggttac	aggcgtgagc	caccgcaccc	5340
ggcccccttc	cttcgtctta	gtcaatccta	tcccaccttc	tcttccacca	gtcccctcac	5400
ctgatgggtc	caacacttca	tcattccacca	cctcctggag	ggggtacccc	gaggtgctcc	5460
gctgggggac	tggcgggtgc	gttgacggg	ggtcgtgata	tttcccgtaa		5520
tctgtcccc	cttacggaac	ctagtctccg	ttctgtccat	ggccttcttc	tggacactgc	5580
taggatccag	aagagtatgt	tatcaattct	caagcctagg	agaagtcagg	agtggagaac	5640
agctctgaga	agatactgtt	gtccaactga	tctccaggca	ccacggagtc	cggtccctcc	5700
aatcaggaag	gtcggaatct	ctgatgtcat	cgttcatgcc	aacctggcaa	ccagtttgaa	5760
aaaaaaacac	atgtaactgc	caggctgata	tcttgtcctg	gagatcctgg	gtgaatggta	5820
tctcctgcca	ctgtcccaac	ctcagaccat	tgtccaaaag	catcttcagg	gactccacat	5880
ccctctgttc	cctgtcccag	cagaggctgt	gtctctcca	ctcaaagcct	gaagcatgtt	5940
ggggtctctt	cgtctctgta	cgtgcccatt	tcagagtcca	gtctgggtgg	agagggaaca	6000
gagtgggaaa	gaaaactagg	gtaagcagaa	acgatgaaac	cttataagag	tgagattatc	6060
atgtacaaga	gtgagattat	catgtacaag	agtgaagata	tcatgtacaa	gagatcccag	6120
gaatactgac	ttgatgaaaa	agtcacatca	gagcactcag	tttggcagag	cttttctgct	6180
gaatgtttac	tcacattcac	tgtccaagat	tctgtactgg	gggtacatac	gtcctctgcc	6240
ctaaggcaat	tttgagtcca	agagacattt	tgaggcctaa	aaatcatagg	aaactgcccc	6300
tgagctcaca	catatttcca	atggagctca	cacatatttc	caatggtgtc	cccaatttca	6360
gggaatccat	ggattaccta	agccagcccc	tccagttcgg	ctaagaaact	ctagtctata	6420
tatcaagttt	tgtatcatat	gtattgtctt	gaactcagaa	atttcccttc	catttatgga	6480
ttctatgaat	aaaatatcac	atgtacaaaa	agactaagtc	gaaaaatttc	agctgtgca	6540
agtggctcat	gcttgtaatc	ccagcacttt	gggtggccaa	gggaggaaga	ttgcctgagg	6600
ccagcagttc	aagaccagta	taggcaacat	agcaagagcc	catctctaaa	aaaacaaaac	6660
caaaccaaa	tagccaggtg	tgggtggctg	cacctgtgtt	ccaactactt	gggagactca	6720
tgtgacagga	agatcacttg	agccaggag	ttagaagctg	cagtgaacca	tgatcttgcc	6780
actgcactcc	agtctgggca	acacagcaag	atactgtgtc	aaaaaatttt	tttttgataa	6840
aaaataaaa	agttacatga	cattcagaga	ccatccaaaa	aacctgcggg	ttcccggtctg	6900
ggctcagtg	ctcatgcctg	taatcccagc	actttgggag	gcccagtggt	gtgatcact	6960
tgaggtcagg	agtttgagac	cagcctggac	aacatgggtg	aaccccatct	ctactaaaaa	7020
tacaaaaaat	tagccaggca	tgggtgggtg	tacctgtaat	cgcagctact	caggagaggg	7080

cgctggagaa	tcacttgaac	tcattggtg	caggttgcag	ggagccaaga	tcgcaccatt	7140
gtgctccagc	ctgggcacaa	agagcaaaa	tccatctcaa	aaaaaataaa	gaacctgcga	7200
gtgagttccc	acacgttttc	ctgatgggct	gctgctttcc	taggagtctc	tcgctcatag	7260
aaaaggcaca	aactgaaaga	ggaagcagat	cccattgctg	tggaaagtccc	attgttagga	7320
agctctgctt	ttctggagtt	caaattcgca	ttcatgacgc	tttaaactgt	cagagctggg	7380
tgggtcctcc	tacaacaaaa	tcgtttgctc	tctctctcct	agttaacagg	ctttcaaata	7440
ttagaagatc	aatgttctga	ccccattaaa	atttctcttt	tgtggaatga	aaagctctga	7500
tttaacccat	cttcaagcct	ggtttgatgg	aggaataggg	gctgagtcac	ctgcatttcc	7560
cctccctgca	caaagtcctg	ggcccagatc	tggggtctgt	ctctgctgag	ggtgggggtga	7620
accaggaagc	acctccctct	acatctcctt	gatgaatggg	tataatgggt	gccatggaac	7680
tggggcttgt	ttgatgacct	ggggctgggt	gggcctctga	gagcctttat	agctgattgc	7740
cttttgggag	agggcaggtg	ggagccccac	cctgtcttat	ggtcacccc	aaaggtgcat	7800
gggcaggcag	gtgctgggga	atcggtact	ccccagagct	tggcgtggcc	atccctgtgg	7860
cccctctggg	agtctggagc	ccattccctc	acactggtag	tctctgcagc	tggggacatc	7920
tgcactagga	agacaggaca	cggcatggaa	gctggcctct	gcccagaagc	catgacattc	7980
tggtcaccag	cctgatgcta	taaaacgagt	gtcacggccg	ggcatgggtg	ctcacacctg	8040
taatcccagc	acttttaggag	gccaaggcgg	gtggatcatg	aggtctggag	ttcgagacca	8100
gcctggccaa	catggcgaaa	tcccgctctc	actaaaaata	agaacattag	ccaggtgtgg	8160
tggcacatac	ctgtagtccc	agctcctctg	gaggctagg	caggagaatc	acttaaacc	8220
aggaggcgga	gattgcagtg	agccgagacc	acggcattgg	actccaggct	gggcaacaga	8280
gcacgactcc	gtctcaaaaa	caaaaaaaaa	cgagtgtcac	ctggggctac	ttggccagac	8340
acagagagca	aggagacatc	cctattatct	gtcaaaaaata	attgttgggg	ctgagcacag	8400
tggctcatgc	ctgtaatctc	agcacttttg	gaggtcggag	caggaggact	tgaggcctag	8460
agtttgagac	cagcctgggc	aacatagcga	gcaccccatc	tccagaaaaa	atttaaaaaat	8520
tggctgggcg	cagtggctca	tgctgtaat	cccagcactt	tgggaggccg	agggggatgg	8580
gtcattttgag	gtcaggagtt	tgagaccagc	tggccaaca	tggtgaaacc	ccatctctac	8640
taaaaataca	aaaattagcc	gggcatggtg	gtgggcacct	gtaatcctag	ctacttggga	8700
ggctgaggca	ggagaatcgc	ttgaaccag	gaggcggagg	ttgtagttag	ctaggatcat	8760
gccattgtac	tccagcctgg	acagcaaagc	tagactccat	ctcaaaaaaa	aaaaaaagta	8820
aaaaatttaa	aaattagatg	ggcatggtga	catgtgcctg	taatccaggt	actaagggaag	8880
ctgaggtagg	gagctagctt	gagctagctt	gttcgaggct	gcagttagct	ctgctgcac	8940
cactgcactc	cagcctgagt	gacacagcaa	gacctgtctt	caaaaaaaaa	aaaaaa	8996

<210> 1126
 <211> 25426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (8427)..(8427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (22142)..(22142)
 <223> n equals a,t,g, or c

<400> 1126						
aagaatacaa	agttccagat	ggaatgggtg	gattcagtaa	gtaacttgt	ttttaagtt	60
ttgaaaacat	gatcaaaaca	tactttagaa	tctttcaacc	aaaaaaaaaa	tttttttttt	120
tctaactagt	aattggcaga	ggaggtgaac	agatctcacg	catacaacag	gaatctggat	180
gcaaaataca	gatagctcct	ggtaatgtta	cattctcatg	gtattttcag	tgtgactaga	240
aaactagctt	tttttttttt	tttaagccttc	tagtaacaat	aatgctactt	ttaatctttt	300
gacctgaagt	tatctgtttg	ttttaaatg	tagacagtgg	tggccttcca	gaaaggtcct	360
gtatgttaac	tggaaacacct	gaatctgtcc	agtaagtttg	aaaaatctta	aaaatctact	420
taagtaacaa	cagcagaact	ctttgaattt	tgtctcttct	cttgttact	gctttatttt	480

acactgtggt	ttegetgcca	ccttccctca	aagtcctcca	actcctttga	agtttatgcc	540
tcatgccttt	ctcaggtggg	gttcatcatc	tgaatcatta	aacacagaaa	atggttaaaa	600
caactccata	tctactccag	tctctacttg	taaagccacg	tgtagcctgg	agaagaatgc	660
acagtcaggt	cgactggtga	cacttaaaac	tcagacatta	agctcaagtg	gactgtttgtg	720
ttgcctgcat	ttccctagtt	ccattcactt	ttccactcct	ctcccaggct	ctttaatact	780
gtattttccc	acctccaaat	cttcagcatc	taaccccacg	ctctcccact	taagcttatt	840
tactgagaaa	atggaagcaa	atgataagaa	gctttttt	ttccctacca	ctaaacctac	900
cagccttcat	ttttcctctg	ttcacatagt	actcaggtaa	ttgctttcct	tttgtgttcg	960
agtgcctaaa	gccagccctt	tcttctact	gaaggttcag	cttgagcttg	tactttcttc	1020
tgcattgtta	gtttctccctc	attactaggt	tttttctttt	cttttttttg	agacgaagtc	1080
tcgctctgtt	gccaggtcgg	agtgcagggg	cacgatctcg	gctcactgca	acctccgcct	1140
cccagtagtc	tgggactacc	ggtgcatgcc	accacacca	gctaattttt	gtattttttt	1200
agtagagaca	gggtttcacc	atggtggccg	ggatggtctc	aatctcttga	cctcgtgatc	1260
caccacctc	ggcctcccaa	agtcctggga	ttacaggcgt	gagccacttc	ccccagcctg	1320
attttcttta	tggcactttc	caaataatgt	gttattcatt	tgacatgtta	tttttactta	1380
tttaagtaaa	ctagcaggaa	ccctgtttct	ttgagtgcta	ttaccccatt		1440
acctagata	gcacctgcac	atagttgata	tttaaatatt	tgttgaatga	ataattgtag	1500
catatgagta	agcaaaatgg	tagtttaaaa	atgtaaataa	atcatttagt	tcttggaaga	1560
atcagtttaa	ttctgagata	acttttagcat	tagagttctt	tcttggaagt	tttgactat	1620
tcttaaaaa	aaaaattgta	tatctagaaa	atttttttgc	ataatctctc	aatctttgac	1680
ccttgatggc	attttctttc	agttaaagt	aaaagcattg	ttaaagttag	catcaaggca	1740
cctaactctg	aactgggata	ggaggagtac	ttggttatat	tgttttatat	ttctctattt	1800
gaataagctt	gggtatgcta	cagcttacta	tttaaatatt	aatttggtta	caggtcagca	1860
aaacggttac	tggaccagat	tgttgaaaaa	ggaagaccag	ctcctggcct	ccatcagtc	1920
gatggaccgg	gaaatgcagt	tcaagaaatc	atgattccag	ctagcaaggc	aggattagtc	1980
attggaaaag	ggggagaaac	tattaaacag	cttcaggtat	tgttattttt	gtgaaatggc	2040
tacttttgat	ctgttttgat	gcccattttt	gtccacttct	tttggttaata	tatattattt	2100
ctatgattgt	aacaggaacg	ggctggagtt	aaaatggtta	tgattcaaga	cgggccgcag	2160
aacactggtg	ctgacaaacc	tcttaggatt	acaggagacc	catataaagt	tcaagtaaac	2220
ttacttttat	actttataaa	gaaagagtgg	gttgaatggg	gttgggcata	atatgctaga	2280
ataattaaaa	agtcttttga	caatttagta	actttttctg	tttagcaag		2340
ccaaggaaat	ggtgttagag	ttaattcgtg	atcaaggcgg	tttcagagaa	gttcggaatg	2400
agtatgggtc	agaatagga	ggaaatgaag	ggatagatgt	aagtaaaaat	accttccag	2460
aaatggttgt	atgctaattc	ataaatataa	tagtgttttc	tgttttgtgt	taagtagctc	2520
taacattgtt	atccttttat	ttcaccttta	tacttttagaa	tacagaattc	tatatatctt	2580
gttaccctat	ttactataaa	tatagaatta	tatgtacttt	tatgatttga	ggcagatttt	2640
caggaaatgg	cgctttttta	aaatactttt	ttttacttta	aacctgaga	agctagcttt	2700
cttaataact	agtctttttt	acataaggctc	cccattccaa	gatttggtgt	tggcattgta	2760
ataggaagaa	atggagagat	gatcaaaaaa	atacaaaatg	atgctggtgt	tcgcattcag	2820
tttaagccag	gtgagtacat	ataataatct	tgtaagtgtt	ggcagcagtg	agttttgaca	2880
tacattttat	gtttaattaa	ttttgtttct	ttgttttgaa	gatgatggga	caacaccgga	2940
aaggatagca	caaataacag	gacctccaga	ccgatgtcaa	catgctgcag	aaattattac	3000
agaccttctt	cgaagtgttc	aggtttgata	gaaagttaac	attttcattt	tttgttttta	3060
tggaaaagta	ttttccttca	tgaaatctga	agttacctct	atatcagagt	ctgcttgatg	3120
atgcttttat	aatggagaaa	gtttaaattg	ctttaaggtaa	agatcttgg	agcaggaaga	3180
actactacct	taagtgttac	cttatttact	ctttagtttt	taaaaaatgt	tattacttta	3240
ttaggggcca	gttcatctct	acatttctctg	atcaggtata	tgagagctgg	gaaaaataaa	3300
cttaataaatt	ttatcatgaa	acaaaagtat	ttctgtgctg	actcttcggt	cttgtctttc	3360
cctctctata	ggctggtaat	cctgggtggac	ctggacctgg	tggtcgagga	agaggtagag	3420
gtcaaggcaa	ctggaacatg	ggaccacctg	gtggactaca	ggaatttaat	tttattgtgc	3480
caactgggaa	aactggatta	ataataggaa	aaggcaatgt	attttaaaact	cttaattgtt	3540
taacacatta	ttcatttttc	tggacacttt	ctgtgtctgt	cgtaacaag	tggcaatgct	3600
ttttctctga	ccgtattttta	gtagaaaaaga	attcttatgt	taatatgtaa	caagtaaaac	3660
ataaatgagg	gatctcatgt	atatttagag	aaagagcagg	attttaatct	tactagcttc	3720
tagagaaagc	gaactaagag	ataattatta	gcataagaaa	tgtcttttga	cccaaaaagt	3780
ggtttgagtg	tttttggttg	tgcatttttg	tttttcccga	ctcatatttt	aaaaatttga	3840
atgtttataa	gtgtattagt	ttatattttac	actgctttta	aaagcagtta	attcaaatat	3900

tttattataa	tcacattaag	tttatgttta	aacatactaa	gtaaatgtaa	atgtatttta	3960
agagaagcat	gaaatgcttc	ctaaaaattg	attttcagtg	tagaatatta	aatgaaaaat	4020
cttaatacaa	tattgtcaat	taggatactg	accaaaccat	atttttaatg	gcccatttaa	4080
ttgtgaccat	tttcttctaa	atagctccta	gtacaccctt	gaaaccttta	gagaaattac	4140
tgtcttttga	ttttaggagg	tgaaaccata	aaaagcataa	gccagcagtc	tggtgcaaga	4200
atagaacttc	agagaaatcc	tccaccaaat	gcagatccta	atatgaagtt	atttacaatt	4260
cgtggcactc	cacaacagat	agactatgct	cggcaactca	tagaagaaaa	gattgggtgtg	4320
agtatacttt	aaacttttaa	tttttagtgt	agacccttag	actgtagtta	aattaagacg	4380
tttattcaaa	tacatcaaag	gaaatgtat	cattactagt	cagcattttat	agatttcatg	4440
atatgtataa	tagatacaac	gtgaagattt	tccagcaatg	aaaataacct	aattaaatgt	4500
gtagttagag	gttttgagaa	caaccttaca	tttgggtgtg	gctagataag	aggagggtag	4560
tgttacctgt	aggcatgata	ttagtgttgg	tgtaggattg	tggaacatac	ttgaagaca	4620
tagttaacgg	gaattcatta	tttattaaga	ttttactcta	ctgaacccca	gcgaggcaaa	4680
caagataaat	cagatacatc	tgccactcta	cagtagaaat	tcataaatcc	taggtttttg	4740
actggctcac	agatcatctg	ggggtattaa	atgttagact	atttgggtgc	ttcccactcc	4800
tacacataat	atacagagac	agacctgact	caaaatgtct	gggatagggc	ccagcatcta	4860
attttacata	gatgtttggg	tgattctggt	gcacagacaa	atttggaaat	tttccctcca	4920
ggaaagtttt	ctgttagaac	aaaaaagtat	gaaacgcttt	gactgctttt	ttgtaagtga	4980
ggcagacagt	gtcttactgg	agtttttaac	acaaagtgtg	cagggggcatc	cttaaattat	5040
tagaattgcc	taggaaaaat	tatttttggt	gtttgccatg	ctgtgaatgg	ggtgcgtgca	5100
aaacaagggt	gacactgttt	ctgtcacact	tggaagaac	acaaatagat	gtacaaaaga	5160
cgttaagga	acgtcttact	aatgttacac	aaacattgtg	agttctgttg	tatggatagt	5220
ttaatggttc	aaaaaatgaa	gaggatgttt	gtagagtaat	gatagagggt	gatgccatgg	5280
caaaaaaatg	aatagcactc	atcttggttt	tttattttac	agtattagcc	taacatgcac	5340
gcgtcaggat	ttctgttgga	ttcatggaaa	aacaagatag	attgttttgg	agaagcaatt	5400
tggtgtgggt	attaagagca	tggactctgt	agtcgggttg	cctagtcca	gaattctgtg	5460
aatcattttac	tggttctgtg	accttgga	agttactcag	gcttttctgt	gccttggttt	5520
cctcctgtaa	aatgaagata	atggtatcta	cttcatagag	ttgtagggat	taaatgaatg	5580
ttcatgtgtg	tgctacttaa	aagaatgcct	gccacataac	cctaaaaaat	gttgctactt	5640
tttcagtatt	atttttacta	cttggaaga	ataggtcatg	gatagtaagt	gagagatgac	5700
agcaatttga	gattttaaga	gacaagttaa	tagaagaact	ttaaaggcca	tgaagttag	5760
tttccctatt	ttgcagttag	aaattgacga	ccaaatgtag	tgtttagcatt	ttgtccaaca	5820
tgctgcctgg	ttgtgttaac	tactcagaag	gagcatttta	ggacagttaa	gtgtaatgtc	5880
tttgttggct	taaccaaaaca	gaaatcagtt	aagcgttatt	aatgatgtgg	catgcatgca	5940
tgataaggat	ataaaaatc	ctgattttat	gaaggaatta	aaaaggggat	ttttgtgcta	6000
ttaaacatca	tgatacatga	aaggccaaaa	aggatataaa	ttattgatct	gaatgggatt	6060
ttagtgacag	aaatagggtg	tgaggtggat	tttagttcca	tagtgaaaca	actagctatt	6120
aacgttatca	gtgaaatgtt	cagaagacga	tgatacagga	cccaagcggg	ttgggaatat	6180
attgtcaaga	cggttgtctc	atgttaggca	agtagatata	gagagaagag	ctgaagataa	6240
ggacctgatt	tctgtgagta	agatggaaaa	agtagtaaa	agtaagaatg	ataaaaggaa	6300
agggaaactac	tgctgtccgc	aaacaagcta	aaggaaattt	aattgcta	ttaaatttaa	6360
tttaatttaa	attgcattta	attgctactg	ctattgattt	tagtgaattt	tacatgtctc	6420
attattatgg	cagatgaaat	agtttttgca	aaatgaatga	ggaaaggaag	gaaaacctaa	6480
aatttggtat	ttgtgactat	aagagggtag	aaatggatga	ttatttggcc	gtagagtgtg	6540
taaaccatta	ctgtgttttt	ctgatttttc	tatgtcatcc	tttttttgt	agggccagct	6600
aaatccttta	gggccacctg	taccccatgg	gccccatggt	gtcccaggcc	cccatggacc	6660
tcctgggcct	ccagggcctg	gaactccat	gggaccatac	aacctctgcac	cttataatcc	6720
tggaccacca	ggcccggctc	ctcagtaagt	attgggttta	gttctgggct	ttccccaaag	6780
attctagttt	tgggactgtt	ttttatgctg	atttttcttt	tcagtgggtcc	tccagcccca	6840
tatgctcccc	agggatgggg	aatgcatat	ccacactggc	agcagcaggc	tcctcctgta	6900
ccaggtagaa	gatgcttatt	atttgtgtgt	tatctgtatt	attttccact	cctgttacat	6960
tattaaattt	attctacatt	attctacatt	tgtatgcac	accttcactc	actttactct	7020
ttcaacagtg	ttaggcactg	cctctacccc	agtgtatagg	actgacatga	atatgagctc	7080
tgctttttatg	gaatttcttt	ctacttgcc	ttggcttatg	agttgatata	gtagaatgat	7140
aaaagctaaa	agctgcagga	aagagcacag	tgtcataggt	tttggatacc	agtgtgtgca	7200
aatgtgtagt	atgttcattg	tgacattatc	tgtggaaaaa	tagttttttac	ttatttagaa	7260
aagtatgtga	taggggctgg	gcactgaggc	tcacgtctgt	aatcccacct	atagaagt	7320

ctgaggctga	ggcttgagac	cagcctgggc	aatatggcaa	gacccatctc	taaaaaaatt	7380
tgtttttaa	tagccgggca	gggtgggatg	tgcctgtact	tgaggctgag	gtgggaggat	7440
tgcttgagcc	tagaagtctt	agattgtatt	gagctgtggg	cacaccattg	cactcccctg	7500
ggcaacagaa	tgggatcca	tctcttaaaa	aattatgtat	atatgtaaca	gtctatataa	7560
atatatatat	ataacagtcc	aacagagtgt	taagtattgg	ggcattaaac	ttccaaattg	7620
tcaaataaga	tatctgttct	agtactcctc	atatgacaac	ttcatgtgag	taaaaaatcag	7680
gcctgtat	aataactgca	tgctaaagcc	caaatacgtt	taattat	ctatatattcag	7740
at	at	at	at	at	at	7800
at	at	at	at	at	at	7860
at	at	at	at	at	at	7920
at	at	at	at	at	at	7980
at	at	at	at	at	at	8040
at	at	at	at	at	at	8100
at	at	at	at	at	at	8160
at	at	at	at	at	at	8220
at	at	at	at	at	at	8280
at	at	at	at	at	at	8340
at	at	at	at	at	at	8400
at	at	at	at	at	at	8460
at	at	at	at	at	at	8520
at	at	at	at	at	at	8580
at	at	at	at	at	at	8640
at	at	at	at	at	at	8700
at	at	at	at	at	at	8760
at	at	at	at	at	at	8820
at	at	at	at	at	at	8880
at	at	at	at	at	at	8940
at	at	at	at	at	at	9000
at	at	at	at	at	at	9060
at	at	at	at	at	at	9120
at	at	at	at	at	at	9180
at	at	at	at	at	at	9240
at	at	at	at	at	at	9300
at	at	at	at	at	at	9360
at	at	at	at	at	at	9420
at	at	at	at	at	at	9480
at	at	at	at	at	at	9540
at	at	at	at	at	at	9600
at	at	at	at	at	at	9660
at	at	at	at	at	at	9720
at	at	at	at	at	at	9780
at	at	at	at	at	at	9840
at	at	at	at	at	at	9900
at	at	at	at	at	at	9960
at	at	at	at	at	at	10020
at	at	at	at	at	at	10080
at	at	at	at	at	at	10140
at	at	at	at	at	at	10200
at	at	at	at	at	at	10260
at	at	at	at	at	at	10320
at	at	at	at	at	at	10380
at	at	at	at	at	at	10440
at	at	at	at	at	at	10500
at	at	at	at	at	at	10560
at	at	at	at	at	at	10620
at	at	at	at	at	at	10680
at	at	at	at	at	at	10740

tttattccct	tgtttactct	gttaccatct	atatcataca	tgtgtatctg	tattttatttt	10800
aaatatccat	tataattagt	tctgaaggaa	gctaattatata	tccagcataa	ttagtttctga	10860
aagaaatcac	tgaagactaa	actgtagaca	tgatgtcctg	ttgggtactt	cttcaaaaaat	10920
acataacccat	catacagccc	tccaaatcag	taagtcaaca	ttgatataatt	aagttccttta	10980
tatcattatg	gattttctgat	ttttgcagta	ggttatattt	ttaaagtatt	tttataattt	11040
tgataatcag	attatcctgg	atttggccag	tcagggagta	tattcagggg	ggtgcctata	11100
tccttttgaa	atacctgtca	ttcttttaag	cacttccata	ctgtctggca	cagtaagatt	11160
gttattttgt	gctttctggg	ctccagccct	cgagtcagct	atcttctcaa	ggagctctta	11220
ttccttttag	tagagtatgg	tagttagaaa	cgagattga	gtatgcttgt	tgctactgag	11280
gtgtaattgc	ttctagcttc	tttcaacagg	cagaactagg	aaatatattt	acatacatgc	11340
atacctacat	acacacacca	aaaaacacat	aaacatcgat	atatgtatat	atcttttaaaa	11400
actatgttca	tatcaccaca	tccgtttcag	cattttgggg	ttttcaagcc	ttttcctttt	11460
ttgtacttgt	ttacaaacgt	gagaaacctg	gtgtcctcag	tgtatttcct	tatttgacat	11520
gcattttactt	atatgttcaa	cataaccagt	cttcaaacag	gttgggtttc	ttttctgtcc	11580
accacctctg	tacccccagt	accttctatc	tttggcactg	ttagggatgc	caccaccaca	11640
tagtacttcc	ctcctaccct	cactgtcaca	ttgcaggccc	ctgccagctc	ctgcacccaa	11700
ggaaacggcc	aaaattgcct	tttaaaaact	ttaattctgt	tttttgcttt	gttttgcttg	11760
aacaaggaga	tcagcagaat	ccagccccag	ctggacagg	tgattatacc	aaggcttggg	11820
aagagtacta	caagaaaatg	gggtatgttt	atacatttct	tgaaaatata	tacttaatta	11880
aattgaaaca	aattattctc	ttcaggaaga	gaataattga	ataaaatcac	tggaacttgta	11940
aacatatcaa	gacagttgta	aattatagtt	tttaaatttg	tggttatatg	gcaaggaaat	12000
ttttttttct	aattgcattt	gtcaaccagt	tattaattga	aactagaaat	gtccttactg	12060
gtacatacaa	tattaacatt	actdaacttt	tgacaatgac	agttatatat	attatcagtc	12120
taaatgacat	aaggttaaat	tttaattgtg	caggcgaaaa	ttgtgtgtga	taccattatt	12180
tttgctgcaa	gataagcagg	taagaagtaa	tctgcagtga	cggaaagtaa	ccaagtgatg	12240
gaaccagaat	ctggcttcaa	gaggggtctga	gtcccaagct	tgtctcccaa	atcttctct	12300
ttaggaacca	tttggaacct	gatactatac	ttctggacaa	atcactatat	ttcagctgct	12360
tttgctctta	gtcattttaa	attattacat	accacagcta	gatgtcacaa	atgaaagcta	12420
aattggtaag	cttggttatc	cttcactagc	agaaaaagaa	cctatagggtg	gtagagtttt	12480
gtcataagag	aacggtctac	ttgggatttt	caatgttttc	tttgccaaag	aatgtttctc	12540
attctccaca	gaaagaaaaa	tttccagaaa	gggtgatgatt	ttaatcttct	agatgtaaaa	12600
ttacatatatac	ctgatgataa	agttgttttg	cacaactggg	ttctttttta	agaaaaattg	12660
tttttctctc	tagaatggct	tcctaggaga	gtcatgttcc	gtctctttctg	agggttttaa	12720
cagattatgt	ttttgtgacc	tagcttaggc	agatctacag	tagctacaat	tcggcaaaaa	12780
gaaactttta	acttaaaaac	agcatactct	gattaagggt	ggttacataa	tttattttct	12840
gaactgggat	cctttttaga	atgaataggg	atgctattaa	taatcatgcc	ctgacagcat	12900
tgtggtcagg	actgtaatc	aacttaactt	taatttaata	gcatcaccat	tttaaaagac	12960
ttgagcatga	gccacgtgcg	gtggcacaca	cttgtagtcc	cagctgcttg	ggaggctaag	13020
gtggaaggat	tccttgaaca	caggagattg	aggccagcct	tggtatcata	gtgagacctg	13080
gtcacgtggt	tgggttaaaa	atcactaact	tcaacttcta	tttttcaat	gggtaatgtc	13140
ccctagatag	ggtccctagt	tattattaag	taggtaaaaa	ttaaaggcttg	ttaatggatt	13200
taggttaatta	tggaggaatg	agtttggtct	ctgtgcttta	ttttaccata	ttgattattt	13260
gtaatatggc	cattaatata	tttactgttt	agtctttttt	gtattacttt	ttatgtttta	13320
ctcaaaaatga	gtgggtgggt	ggaattctaa	tttttattgt	taagggaaga	cattttacct	13380
tgtctttaat	tttttatttt	tttttaccat	ttccctgcc	gttagagata	ctatactata	13440
ctgtcttgaa	tcctctgtag	gaaaacatgg	catagaaata	attaaataat	aattagatgt	13500
taaataataa	tgctgtatga	ctaaagaacc	tccttacc	accttttctg	ttgttggtct	13560
gtagtaccac	aataatcact	tgttaatttt	atcttattat	ttatttgaga	gggagtctca	13620
ctctcccca	ggctggagtg	cgggtggcga	atctcagctc	actgcaacct	ccgcctccca	13680
ggttcaagcg	attctccggc	ctcactactc	caagtacgtg	ggattacagg	cgcctgctac	13740
cacatccggc	tgattttttg	tatatttagt	agatacgggc	tttcatcatg	ttggccaagc	13800
tgggtctcaa	ctcctgacct	caggtgatcc	acctgcctca	gccttccaaa	gtgttgggat	13860
tatgggtgtg	agccactgca	cccagcctca	cctgttaatt	ttatgagcaa	aacagattag	13920
ttgggcaagt	ccttcacatg	catatctcgt	tgtgttggtt	ttttttaaga	cggagtcttg	13980
gtcttactcc	ccaagcaatg	gtgcgatctc	gtctcagctc	aacctctgct	tcctgggttc	14040
aagctattct	cctgcctcaa	cttcccaagt	agctgggatt	acaggcgccc	aaccacaccc	14100
agctaatttt	tgtattttta	gtagagacag	agtttcacca	tgttggccag	gctgggtctg	14160

aactcctgac	ctcaggtgat	ccacccgcct	cagcctcgca	aagtgttggg	attacaggtg	14220
tgagccactg	cgcttgGCCa	catgtgtata	tcttaaagga	aataatgcta	ggtaatttag	14280
tcaggtgctt	gatgagcatt	tgtcatcatc	atacggagtc	aatttgcctt	tttctataaa	14340
agttcttttt	gtaaatgatt	agttgcttaa	ctgctttaat	ttcttctagg	taccttacct	14400
gtcatcagga	tctttttacc	acaaataaga	aaccttaaa	cataaaactt	ggttcagtct	14460
tcacatttct	taaatggaag	gagaaaggga	ataataggga	gatatcttta	tctcaaagcc	14520
aactgttggt	gacttttcca	gtggcagggg	tatgatgcta	ggacttcaga	tttcctgat	14580
ccccatccta	gtgccccttt	tgccaaacta	ggcaggcttt	cacagctttt	ggagccta	14640
ttaagttttt	cttggttaaga	acagaaaact	ccattcatag	attttaattt	gtcattat	14700
gcttattttac	tgaaaaaaa	aaaaaactat	tgaaaacagg	tgtgggttaa	gtttcccaa	14760
attaggttta	tatttcaaaa	caattctaag	ttcccaagga	taacaccaa	ctaagaggat	14820
aaattttttat	tttatttttt	tttattttat	ttttttgaga	tggagccttt	ccctgtcgcc	14880
caggctgaag	tgagtgGca	tgatctcggc	tcacttgcag	catccacctc	ccaggttgaa	14940
gcaattcttc	tgccctcagcc	tcccaagtag	agaaaatctt	gataagattt	caaggctta	15000
taaggaacag	cagtaaagat	gggtgttttt	aaagctagaa	tacagggatt	tttttaagac	15060
ccttaagaga	acaaacaggg	tttcaaaata	gaaaggagta	attcttggtt	ggagaagtga	15120
agacattttg	gaaaaagttg	acttgaggaa	ggccattatg	ataaggactg	atgtggtaga	15180
ctctgaaccc	tgaagaatct	ggtaccttaa	gcctaaagga	gggtagagt	aggacttgt	15240
ggaaaggtac	agttatatgg	gaagacaact	gagtgtgaaa	atctattcat	gcaaggctgg	15300
ctcttaggct	ctaatagaat	cttgcaagct	aactctagag	caagtctttt	atctttggga	15360
tgaaagaaat	ttaaggctaa	actttatata	ttataattat	aaaactaaa	taaatattag	15420
ataatgttct	actgaagtat	aaactcaact	atctggcatc	aaacagtaac	taagccatga	15480
tcacaccact	gccactgtgt	tctggcctag	tgtgacagag	caagaccctg	tctcaaaaca	15540
aaatccagta	actaaagaga	ggaataaggg	gagcgcaagg	taaggcagta	catgtctgaa	15600
ggggcagggg	aagagttctt	tctctacttc	caactgggca	aaataaatca	catttgccct	15660
ttagattgga	agagtgaat	aagcttttct	tgaacatctt	ttaagattgg	agtgtcaaat	15720
attaccaact	tatttaccaa	gaatttggtt	tttcttaaag	tctaaagtgt	ttactattag	15780
ctttccacag	ggatatagga	gtttgcagag	gttgtagttt	ttaagggaa	catcaatgaa	15840
ttttcttgat	gcatatgcct	gtttctacca	ttttacattg	ttaatttgcc	tctaaaatga	15900
gtaactctta	caatgggggt	taaaacctga	agactattga	ttgctacctt	gatcaggttt	15960
ggtttcaagt	gtgcaccctg	taagagacaa	tgtgtgggtt	tattgtctatt	gtcacaccag	16020
tttttttagat	attgaaaacct	gtttcagatt	tgcttgaatt	gtgtcttgta	agaggaaaat	16080
gttaaactta	cttctctctt	gagaacagtt	atztatagaa	gacaggaaaa	tatgagaatt	16140
tttaatatga	tatgagagtt	ctctgtttacc	aagaaaagag	ggtttttttc	aggcattttt	16200
aaagaatcat	aaatcttaaa	ttcttttact	cagttgdt	gagtctgtga	cctgttttac	16260
aatggtgata	gactgctttc	tgaaactatg	aaattggtct	tgttggcatg	ctcctacaaa	16320
cataaaaaga	cgttcctgtg	tgtccatgtc	ccagataact	cgtctatggt	agttatttca	16380
caaagccaag	cgagttacaa	acgaaataaa	atagtgtcta	agtaaagaaa	ctgaatagga	16440
gaacatatac	tctctcttct	caattttata	tttagaaaaa	tataccttca	gaaattgggg	16500
aaataggcat	cagacactca	gcttcatcat	tttttaaaag	tttgctgtat	gcgctttata	16560
tgtatgtttt	ttgtgtatga	accattttcaa	agtaagttgc	agacaagaca	gtttgtctta	16620
aataaaactca	atgtctgggg	acagtgggtg	agcctgttaa	tcccaggact	ttggggaggcc	16680
aaggcaggtg	gatcaactga	gtccaggagt	tcaggaccag	cctggacaac	atggcaaaac	16740
cccattctcta	caaaaaaaga	gaaaaatgtc	agctaggcat	gggtggcctg	tagtcccagc	16800
tactctagag	gctgaggtgg	gaggatcacc	tgagccctgg	gaggttgagg	ctgcagtga	16860
ccatgattgc	accgctgcac	tccagcctgg	gtggcagagt	gagaccctgt	ctgaaaataa	16920
ataccctcaa	tattatcaca	aacatacaga	ctatatTTaa	atttccatag	ttgtcaggaa	16980
tatgtctttt	gtcgtctgtg	tgttttgttt	aattcagagt	acattcaaga	ttcatgcgtt	17040
gcatttcat	gctatatttc	tttaatttct	taattcagca	aagtcacctt	atttggaaaa	17100
agacctgatt	gtgaaagctg	agttttatgt	gttttcattg	atcttgttct	ttattccttg	17160
tcaggttact	tttaataaca	ttgtgttgta	attggaataa	attattaata	cttttaacat	17220
cttattatgt	gtgtgtgtac	atacacttta	taggttacta	atcaggaaaa	agtcttggct	17280
aggtcttaat	acagtcttta	aatcattgcc	tttaagtggg	cttaaagttt	ttcaaaaatg	17340
ttctttttgt	aattctggaa	tcgaattaa	attatgccta	aatctttacc	ttccttagct	17400
aaagcagtg	ggatttgggg	ttgattctgt	ttttttacta	ataatgacgc	tctagaacta	17460
aaagttaacg	attaattata	aggcaaaaag	aaaagagcgt	tctttttttt	tttctaattg	17520
cagagttagtt	tcttgacact	actaaatgaa	tatttttaaat	aaaacaggag	taattctgac	17580

cctctgtgct	tttgtcttat	aacctgtact	tacagtggat	gtaattttat	attaaagttt	17640
aggggttttt	ttttttggtc	aacaagggca	aacacaagat	tattcaaagg	ttgggagaa	17700
atattacaag	aagcaaggta	ttgtttttat	tagaaatgag	atgttgggct	tataattgtg	17760
gttacagcaa	caaagtctct	ttttttcaaa	ggtcaggcag	ttcctgctcc	gactggggct	17820
cctccagggtg	gtcagccaga	ttatagtgc	gcctgggctg	agtattatag	acaacaagca	17880
gcctattatg	cccagacaag	tccccaggga	atgccacagc	atcctccagc	acctcaggta	17940
taatgtaatt	gctaatttgt	tgattttctac	tccagtctgt	tttctgcatg	tttactgttt	18000
gtctgttttg	gagtgtttgc	cttttaaat	tttatctggc	aaagtataat	aactatttaa	18060
atgaagtact	acgggtgatt	gtttgggttt	ttttgttttt	tataagctt	tccagcatct	18120
gagtggtaag	tatttctgca	atgcctttga	ttttaaaaaat	aaattttctt	ccccaggga	18180
tttggaatac	atgcaagaag	ccaccaccat	ttatattaac	cactttttct	ttcttaaagg	18240
attcactcct	gaattagctc	catttcaagg	attttcttta	actttttgtg	tatttcttat	18300
gtatctcttc	tgcacagggc	caataataag	aagtggacaa	tacagtattt	gcttcattgt	18360
gtgggggaaa	aaaacctttg	ttaaatatat	ggatgcagac	gacttgatga	agatcttaat	18420
tttggttttg	gtttaaaata	gtgtttcctt	tttttttttt	ttttttgaaa	atgtacaaaa	18480
tatctatcac	tactgatagg	aggttaatat	ttctgtgtaga	aatgaaaat	tggtttgttt	18540
ttagtattta	gtgtagatgt	acacattcca	gcaaatgtat	ttgcaattat	gtggttgatg	18600
ctttgtgata	taaatgtact	ttttcaatgt	atactttcac	ttttaaaatg	cctgttttgt	18660
gctttacaat	aaatgatatg	aaacctcctg	tgtcggtaag	ttggatatgt	gggtatttaa	18720
aggattcata	atttcttagc	aatgataaat	taagatacat	atacacaaat	atataagctt	18780
tccccatgaa	atattgagtt	tttaaacact	ggcatgtttt	tcccccttg	cagtatagtg	18840
gtagattgga	ggatcttttc	catttattgt	attggctcct	tcagcacaag	taatcctgat	18900
atcttcattt	tttttccttc	tgtttgatta	aaaaagcat	gtgtgtacaa	tgatcttttg	18960
gcatacttcc	attgcattaa	cagtgaat	tccttttata	catgaccact	gtttcagacc	19020
tgtactgctg	ctataacagt	taacctttct	gttcttaatt	tgataatact	tgatttccaa	19080
gactgtttcg	gcataactaa	ttttaaacag	ttttcagata	gtgaatatga	gtagtcta	19140
aagaacagtt	tttttccatg	tgaagcaact	ctttcaatgt	atataatgtt	agtgtgtttc	19200
tttctaaatt	taggatagaa	aagtgaatag	tgtgcaaaaa	gtatagctac	attgcatctg	19260
ccattgaaac	ataaatgggg	tatggaaacg	ttcaagcttt	ttttttttct	ttatgcagta	19320
tagataagct	ttgttttgta	aatgcacaag	tccaatcatt	gaatcaactt	aattttttta	19380
tgtacttgaa	gtcattttat	tactctttta	cactcatgct	gaagttctga	tattttgttg	19440
aaatccattg	ttttactcct	tgcatatttg	ttggctcctt	gcatattaat	atattagact	19500
acatgcaaat	acagtctgtc	ttgccattgt	ctgttggaagt	gcagggttga	tccagccagt	19560
atagaactag	ctctgtaggg	gtgaggagga	ctgtgctgtg	tatcatcctt	gattgtgttc	19620
cttcaaggag	cattgcactg	taagtacatc	agaatgacaa	attgcatgaa	ctgcaacagt	19680
atctttttgt	caatgtttca	cataatgcaa	atgccatacg	ttgtgtgata	ttatgttggg	19740
atacagtgtc	gatattcttg	aaaacataa	ctgcctctta	atttaacata	gaataataca	19800
tagttctgta	ttttttttta	agtgaagctt	atgggtaagt	attttttata	tgcttttagct	19860
atagctaaag	aaaactgata	cttaacaaag	ttgaatagta	ttattcactg	gtgctcctaa	19920
aatattgttt	ttcagtgtaa	aatatgcata	tcttctatat	ttaatatgaa	agtcctgaaa	19980
tgtatcagac	agaaggggat	ttcagtttgc	aaataatgag	caatgtagca	attttaacac	20040
atttcataaa	tatatatttt	gtcattgggtg	gagagcacca	tttgttgttt	tgaatatact	20100
ttaaagggaag	aggtacaagg	acataaatgt	ttgagattacc	tacaggatgg	aaatagcagt	20160
acagttcatt	gtagatat	tgaaatgttt	ttgattgttt	tatataacct	agagtgaactt	20220
cccttaccct	tatttagatc	tgcatatata	gttctagtat	gaagttaa	agttaaggag	20280
ttagctat	gttatcttta	agagtagggt	attgacgtga	acaattgcag	tattttgcat	20340
gatactgttt	tatagatgac	cttttaggaa	agtgggtgcat	ttattaattga	actgaagaa	20400
gtagttcagt	tgaattcagt	atcataattc	acaattggag	gctgttgatt	ttgattcatt	20460
taaggtttaa	aatcttttatt	aattgcaaac	agtgaactta	tttatacttc	acagtgcctt	20520
cccagacctt	ccaccttagg	ttctgctgca	aaagcacca	ggtaagcaca	acctaaggac	20580
atatataaat	aaatatttca	atacattaat	gttgtccctg	tgagggtttt	gtggttgtgt	20640
attcaaaggc	aatctgctac	tgcttcccca	aaatgtattt	tgttatttta	tgctaccatc	20700
ttagtggaaa	gtctgtaagt	tgttaaagca	actgtttaca	tttctgggta	atgtttttta	20760
ttttactttt	ttttttttat	taagacaaga	aaatgatgag	tagatgctg	cagtaattga	20820
actacatcca	aatctttttg	tattttttcc	ccaaatatag	aagtgtta	attaagaaag	20880
gacaattaca	cagttttcaa	gatttaggaa	atcacttggt	tagaaacttc	aacagccttc	20940
acaatctggt	ttatatgatg	gacagaaaa	ttctttgccc	tccaaaatta	taatttcttt	21000

atTTTTtct	tattcttaaa	ctataataat	tcagtaagga	tattatgggt	tagaatttta	21060
ttatgatttt	tttcttagac	aaaagttata	tgctgaagaa	ggaaaaagtt	ataaggcagt	21120
atgttttgat	aaaaggcatg	tgcatcagtg	aaatgttaac	tgtatagcaa	ataacctttc	21180
ataatctgta	gcatcagtat	ttttctgatt	taataataat	taataactga	cgctgcattt	21240
aatTTTTtgg	ccagtttaaa	atgtttgtgt	gtttttatag	atgattttta	ctggtacata	21300
ttttgagtta	agttgaatgt	atgaaagcag	catcttatca	gttttgttta	ttcgattttct	21360
aaaatgtgct	gaccccttta	aaactcctgc	ttatctctgc	aacaaagaaa	aatattcaaa	21420
aatactgcct	tcattttcac	acacagtgct	gaagatgctg	caagcaccaa	atcatagctc	21480
ataaaatcag	gtcctgagat	agttacccat	aaagaggaat	cctttgagtg	tatgccattg	21540
gtgagccgat	agcatggag	catagaagg	tgcaatgtag	aaggtaaaat	tggcaaatca	21600
taatttgagaa	tattgaaatg	tattcccata	caaatatgg	tataggggtg	aatgtacctg	21660
cttttgatca	cttttcattt	taaagtgcct	ttcacttgat	cttaaatggt	ccatgaactg	21720
ttaaattttct	taagttacat	agttactaca	ccacatttat	gtgtatgtta	tgttttaata	21780
gtcaatgata	ggtatgtaca	attgataata	taaaggggct	cattgaaact	tgagagcctg	21840
ttgagttttg	gttagttgta	gattgcattt	ttataaaaaa	aaatacagat	agattgatga	21900
taatagatat	tggggcattg	tttctgtctc	atgagaattc	ttttattcat	taccataagc	21960
cttcactgat	actataagca	ttattttaaa	tgacgctgat	cttaagtctg	aaataaatgg	22020
aaagcagaaa	aggtgagcca	gttgatttga	atgcatttga	tattagtgtt	agaaacaatg	22080
tatagtttag	attgaaactg	aactgactta	tttagcactt	aaacaaaaat	tgacaatggt	22140
tntagttttt	tttaagacag	cttagtgtgg	tgatacttag	aattctatgg	tttgatgttt	22200
cttttagaaa	tgagaagtat	agttttatit	tttaataata	aaaatgggtt	taatactaa	22260
actagtaatt	tgatactagt	tgtttataaa	cattgtaaaa	tatatctttt	aaacaaatta	22320
tcttggtagt	taattcataa	gggtgggttt	gggtaggaat	agcagagtac	tttcagaggg	22380
aaaggggagt	cattcagaag	tgatagcatt	ttatttggtt	gaatactctg	ccagtaaaat	22440
cagctgtact	tagaaagtta	tdgttgtgt	agaataatga	tgtagagttt	actaatcagt	22500
gaggatgtct	tgtttttatt	ttctgcaaac	tctgcctcac	tttaaaatgc	attataacaa	22560
tacctaatta	aagataattt	tggctctgaa	agttacctta	ttttttgttg	agttagtgc	22620
ttcatttttc	ttgccacaat	ataagctttt	gagggatttt	tttaaatggg	tgttttaat	22680
aagcaaataa	atcccagggt	tttatttttc	tcagtgtatc	ccctatagaa	actcttaaat	22740
gtattggcgc	atataatat	atataatttc	ttatgcattc	tcgatgcatt	ttcgtcctga	22800
gaaaaatggt	ctctacagaa	actaccctg	tgtaaaaaga	agattggctt	aaaatggcta	22860
ctgtgatggg	aacagtgtct	tagggagatg	cagcttggac	ttgaggtaaa	ttgaatactt	22920
tacaactgtg	gttttagagt	tgctttaatg	acattgtatg	taaaaggtca	catgattgct	22980
gtaattttgt	attcattatg	gtttcctcaa	taaatgtaca	ttgatgacta	ttataaagga	23040
gtgctttgtg	ttttttatac	atataattaca	tggtaaaatt	ttctactga	ctgggttttt	23100
ttttatggtt	actgtgagaa	aaaatgattt	taaaagtttt	taatgataaa	agggtaacat	23160
ctgggtgcac	aagtcctaaa	atacagaaag	acttttaaat	acagaagtta	ctttatttgg	23220
gttcacgttg	taaaataaaa	ttgtcttcca	gaaaattaaa	atataaaaca	acttaataga	23280
acgtaatagc	taattattta	caaactcatt	ttaaagacta	gaatttttaa	tcgaagggtg	23340
tgccactttt	tccctaagtc	tgatacactt	agatcttgaa	gccttcgact	atgttgaaag	23400
tgttttctct	tgcgtgaact	attaatagaa	agttttttca	ttaaaatata	atttgttcag	23460
gcaagatcac	aacataaaat	tgctttataa	atttaatat	tctacatac	gtttgaaaaa	23520
taacatgttt	aatatcctca	acactcaaca	ctgtatagcc	attcttttaag	tcctttaatt	23580
tttgtttttc	tccatgctcc	tccccttttc	ctctgaaagg	agtgacagtt	ttccccaccc	23640
cgctccaatc	ccaatatatc	tgcttcagaa	agactttgaa	actacaacaa	ccaaaatggt	23700
gtactactaa	agaaaaagtc	cactcaaatt	gataggttcc	aaattaatta	tctcagctat	23760
ttcagccata	ttttaggtgt	aaaaagctca	gaaatgacat	tccttcattg	aaaataatgt	23820
attctactta	ggtttgtgtg	tttttttttt	gtttttgttt	tttaaacata	gttgctgtaa	23880
acgtctatgg	gaaatacagt	ctttataata	ggttctgta	gaataattga	gtaattcccc	23940
cccataagta	cattttattg	actgttactg	cataaatagg	gataaatctg	atgctttatt	24000
ggaaaagaag	taggcattct	ttagatgagc	tgtgctttga	agactgttat	gaaaaggaat	24060
aagaagtcag	catagtggca	ctcctgggtt	ccttttttgg	ccccgccaca	gaaaagatgg	24120
atgtagtaag	aaagtgggag	tgaaagagaa	agttccaggg	agaggggagg	ggagctagta	24180
gtcatcagct	aaaaaagaga	agaagaaaag	tgatttttaag	gaaaaaaaaa	ttaatagaat	24240
aaaagataaa	aagagtgatt	aattcttact	ttcaatggta	agaatacagg	tactagctgc	24300
agatccttta	ttgttgactg	ctttacacat	taactctcct	ccatcttctg	ggaaagtttc	24360
tggtaaagta	aggcagtaag	tttctccctt	ttcaatatat	tgatagtctt	ctccatcctg	24420

cagtattttct	ccttcaaacc	accatgtaat	ttctggttgg	gttctcctgt	tactttaacc	24480
gtaaatctga	ctggctcact	gtctacaact	gatgtgtttt	taagaggctt	cttgaaccat	24540
ggagctcctg	atctggtttg	ctcttcatct	tcagcagtgg	agccattcat	gatgctacct	24600
tcttcctcct	cctcctcttc	tcttttctgt	attaaaataa	atgcattcag	gttggcattt	24660
atagtatttt	cagggcagcg	atttagtaac	aattttgaaa	tgaaattttt	ttttttaagt	24720
aaagaacata	caagtgtgcc	tactaaag	tgtacttaac	agtacattcc	agtgacttga	24780
aagaaaacca	ttaaaacatt	tttttaacct	acctaattat	aaaactatgg	gttttaagag	24840
ggcatctttg	gaaaataaag	gatacataag	cctggtagct	tttgtagtgc	tgcatcaatt	24900
tccctttgtt	caaactgcat	gcgtagtaac	ttttgttctt	caattcttct	ttgttcttct	24960
tcttctcttg	ccttagccat	ttgttcaaat	ctagctttca	tattcacttt	gtgagtaaat	25020
ggagcctcgc	tttttcttgc	aggcctaaca	tcaacatcat	cttcctgcaa	gaaagtgggc	25080
caagattaac	aattgcttgc	cttctaataa	caaagaagcg	ttactagttc	taaaggtgtt	25140
tagaagcaca	aaatgattaa	catgtttata	atgcataatt	ttgctacact	gcagacactc	25200
agattttttc	taactctcca	gttcaggaaa	agtgatagat	acatttatga	agcattctct	25260
tagttataga	ctttttctcc	aaatgtaaag	atcacatat	cactgggac	ctagcctgtt	25320
tgtcctacca	actctgcttg	gttttgatag	cacttaactg	aaaaaggtca	gatgctata	25380
cattctaaat	aattgttaaa	agtactccct	tgattcctgt	aagtc		25426

<210> 1127
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 1127	
tagaagaaca	ggggtgaatt agagtaactg ttaagatgac attctctaaa ctccacttca 60
acttctttac	agttaatgac ttcagactgt tccattcatc atcccttctt cacttgatgt 120
gtcatcttaa	atttcttaat ttaactactc aagtaataag atcatatttt ttgacatgag 180
tctgagccta	gaaccttagt ttaagccatt gggagacatt agacttccat ttttattaat 240
agattatctt	ttattttgtaa acaaagtatc tttcattgaa ggaaaa 286

<210> 1128
 <211> 964
 <212> DNA
 <213> Homo sapiens

<400> 1128		
ctcacaagat	aatatctctt gcctttttcc tctcggagtg ttcttgcggt ttgtgatctc 60	
tcttagctct	ggtagcctgt tcaggcctta aggtatctgt tcggtattat gtgggtcaagt 120	
agctgggacc	acaggatcac aacaccacgt ctggctaatt tttttttttt tttttttttt 180	
ttttttaga	gatggggttt cgctatgttg gccaggctgg tctcaaactc ctggcctcaa 240	
gcaatcttcc	agccttggcc tcccaaagtg ctgggattac aggtgtgagc caccacgtct 300	
ggcttggagg	gcttattaaa acaccgattc ttagcctcac cccagagt tctgggttagt 360	
aggtcttggc	agggctggag aatttgtatt tccacacctt ccttgggtgat gtgttgttgg 420	
tagttcaggg	agtacatgtg agaggaaccg tttagatagt aaaaactgca aacctgaaga 480	
agaatagaag	aatccttatt ctgtgctctc ttagatttag ttctctcatc tatgatcaat 540	
aactattcat	ttcttctca tttccaataa cgatttgcgt cttttaagag caagagatca 600	
cttttcttcc	atgttgtttt gctagtggca aatcagaaat ggtttcgcca gtattcactg 660	
atcttgaat	cactctcgga atccagctgc atctctagt tagagttttg ggtcaacaag 720	
aataatgctg	agcttaaaga attggactca gtctcttgaa gttaggggtt gatgagaagg 780	
tggtctaat	ctattcattc aacaacttcc tattgagcac ctgctatgtg ccagggtgctg 840	
ttctagccac	taagatagag caggtaataa catagggccca ttgtccttat ggaatttgta 900	
ttttagtggg	gtgaataaaa aagggcagtc taggtggggc ccagaaatag aaaaatagaa 960	
aaaa		964

<210> 1129
 <211> 964
 <212> DNA

<213> Homo sapiens

<400> 1129

ctcacaagat	aatatctctt	gcctttttcc	tctcggagtg	ttcctgcggt	ttgtgatctc	60
tcttagctct	ggtagcctgt	tcaggcctta	aggtatctgt	tcggtattat	gtgggtcaagt	120
agctgggacc	acaggatcac	aacaccacgt	ctggctaatt	tttttttttt	tttttttttt	180
ttttttaga	gatgggggtt	cgctatgttg	gccaggctgg	tctcaaactc	ctggcctcaa	240
gcaatcttcc	agccttggcc	tcccaaagtg	ctgggattac	aggtgtgagc	caccacgtct	300
ggcttgagg	gcttattaaa	acaccgattc	ttagcctcac	cccagagtt	tctggttagt	360
aggtcttggc	agggctggag	aatttgtatt	tccacacctt	ccttgggtgat	gtgttgttgg	420
tagttcaggg	agtacatgtg	agaggaaccg	tttagatagt	aaaaactgca	aacctgaaga	480
agaatagaag	aatccttatt	ctgtgctctc	ttagatttag	tttctctatc	tatgatcaat	540
aactattcat	ttcttctca	tttccaataa	cgatttgctg	cttttaagag	caagagatca	600
cttttccttc	atgttggttt	gctagtggca	aatcagaaat	ggtttcgcca	gtattcactg	660
atcttgtaat	cactctcgga	atccagctgc	atctctagt	tagagttttg	ggtcaacaag	720
aataatgctg	agcttaaaga	attggactca	gtctcttgaa	gtcaggggtt	gatgagaagg	780
tggctcta	taattcattc	aacaacttcc	tattgagcac	ctgctatgtg	ccagggtgctg	840
ttctagccac	taagatagag	caggtaataa	catagggcca	ttgtccttat	ggaatttgta	900
ttttagtggg	gtgaataaaa	aagggcagtc	taggtggggc	ccagaaatag	aaaaatagaa	960
aaaa						964

<210> 1130

<211> 236

<212> DNA

<213> Homo sapiens

<400> 1130

tgggtggatc	acgaggctcag	gagttcaaga	ccagcctggc	caacgtgggtg	aaccctcatc	60
tctaataaaa	atgcaaaaat	tagccaagca	tgatgatgcg	tttctggaat	cccagctact	120
cagtgaggct	gaggcaggag	aatcgcttga	acctgggaaa	cagaggttgc	agtgcactca	180
gatttgtgtca	ttgcactcca	gcctggggcca	catagtgtga	ctctttcccc	catccc	236

<210> 1131

<211> 236

<212> DNA

<213> Homo sapiens

<400> 1131

tgggtggatc	acgaggctcag	gagttcaaga	ccagcctggc	caacgtgggtg	aaccctcatc	60
tctaataaaa	atgcaaaaat	tagccaagca	tgatgatgcg	tttctggaat	cccagctact	120
cagtgaggct	gaggcaggag	aatcgcttga	acctgggaaa	cagaggttgc	agtgcactca	180
gatttgtgtca	ttgcactcca	gcctggggcca	catagtgtga	ctctttcccc	catccc	236

<210> 1132

<211> 3722

<212> DNA

<213> Homo sapiens

<400> 1132

cagatgcttc	ccactagaga	agctaagaag	ctgtggcagc	cacagccggg	acagggcctg	60
gcctccagcc	cagggctttc	cctgatgttc	agcctcagct	gcctcttcc	gcctcatccc	120
acccgaaga	ggagctgggg	accagagaca	gagacacaaa	ctccatttga	atgtgaacct	180
tggcaccatg	gagatgctca	gggtgagccc	agtctgctct	ctcattagta	tgaatttcct	240
tgtgtttctg	tctctctcct	cttccctggg	atcagctgct	ggccccaggt	tcctccagag	300
aggagcgggg	gtgggtgggg	tgggtgctgat	taaatctgag	gacatgacat	tgagcgagag	360
aagcaagggg	agctgctgac	ctccctggat	ggataaccat	caggaggcgg	tagcagagtc	420
cacataccat	caccttctcc	tgcagatgtt	ggttcagcca	cctttcctct	accacagatg	480

ggctatgtgt	tttcaaagca	gaagagcaga	gacggcagag	aaccccagct	ggttcccagg	540
caaggataat	gaatacagtc	ccctggaatg	tgggggcctg	ccgcctggcc	ctccccacca	600
ccaactgccc	cccttcagca	gactcctctg	cttccccaag	caggtgggccc	aggctgttgt	660
ctgggaatgc	cacctgccac	caggcacatg	agcagccagg	ccaggatgag	gtggcagca	720
gaggtgctg	cagcctgggg	caggggtcag	cacagcatct	ctccatccct	gcctttgggc	780
agcccatccg	cccacgcgtg	gatccgccaa	agcaaagccc	tgccttctct	ctcgcggggc	840
gctcagagtt	gcacactctg	ggttggtctt	tgatgacacc	ggccttgtgg	aaggagcaaa	900
aaaacaaacc	tttaatgtgg	acctgcaaca	ccttccattc	cacttccatt	atgtaatctt	960
gggagtcact	caactctcca	agcctcagtg	ccctcctctg	taaagtgagg	ccgtgaatag	1020
ttccgactcc	acagcattgc	tgtgtggtgc	aaataagaaa	atacacttga	cgcaccagca	1080
cgaggcctgg	cacctgcctg	gttcctatga	tctctgtgtg	ccaagccct	agccaggcaa	1140
agtgtccccg	ggtttttctc	cagttctatg	gcattgaatc	ctaacaaaac	ccagcaaggg	1200
aggtgtcaca	ggacttcctg	gtacgcgcca	ggagactgtg	gctcagaaaa	caggtgttga	1260
ctctgtctcg	agcagtctgt	aaatgtggag	ttggggctca	ccccgcctcc	caactcccat	1320
cctctagcaa	aaccaaggcc	ttctgtcatt	gcaaattggc	tgcaaacttg	agagtgattg	1380
gaaatgcatc	cccaccctcc	agaaccata	agagaccag	cgctgagcc	cacacatggg	1440
agtagtctct	gagtgcaagg	agggcaagg	cgggagcgag	gaaggcagga	gccagatgat	1500
ggattagcac	aggaaggagc	acagcacctg	gagttgcttt	ttgtcttct	tcccaagaac	1560
tgcattggggc	tggcagggag	aggaggggaa	gtaggaggcc	acacgacacc	tggcacccat	1620
tgtatgtttt	ttatTTTTTT	ttatTTTTTT	gatggggata	agatttgcat	gacataaaat	1680
tagccatttt	aagactgact	catgccttaa	tcctagcact	ttgggaggcc	gaggtgggta	1740
cattgcttga	gtccaagagt	tcgagatcag	cctgggcaac	gtgtcaaaaac	ctcatctcta	1800
ctaaaaatac	aaaatattag	ccaagcatgg	tggcacgcgc	ctgtggtccc	aggtactcga	1860
gaggctaaag	tggagatca	cttgagcctg	ggagtccaag	gctgcagtga	gctatgattg	1920
caccaccaca	ctccgcctg	ggcagcagag	cgagaccgg	tctcaaaaaa	aaaaaaaaaa	1980
aaaaaatcat	tttcaagtga	gcaattcagt	ggcacttagt	acattcacaa	tgatgtacaa	2040
ccaccactga	gttccagaat	actttcatca	ccccagaagg	aagcctgtac	ccactcacag	2100
tactcccca	ttcccctctc	tcccaaccac	ctgccagtca	ccaatctgag	ccccatctct	2160
atggatctac	ctactctgga	tatctcatat	aaatggcatc	atacaatagt	tgacctctta	2220
tttagtttga	tggcaagagg	gggaaggagc	tgtgtctgga	gccccctccag	gccctgctcg	2280
aagctttctg	ttgtggggaa	gtttctagat	gctcagaggg	agcagcccag	tctgccctag	2340
acctttgttt	acctccttct	ttggggctcc	ggtgtgtagt	ggactgggtg	ccggtgggtcc	2400
tgggcttttg	tctcagctca	gcagctgatg	cagagtcctc	agggaaagctg	ctgcacctct	2460
ctgggcccc	gggtctctgt	atgtgaagcg	agcggttgaa	cttgtgggtc	cctgttgctg	2520
cttttgacc	ccccactac	tcccaataag	ttctgaggag	agacgggact	ccctgtggta	2580
gagacaaagg	gccactgctg	attggagggg	aggaggtcca	gaagctcctt	ctaaaacgga	2640
aagaaagaga	ggggaagtgg	ccttgacctt	ggtccagcaa	ggggcagtgg	gccaccagac	2700
ctcgtgggtt	ctctgccaac	catgagagcc	agtaaaagg	ataaagaagg	tgaccagggc	2760
aggagcagag	cccagtgtcc	aggggtgac	aacggcctgc	ttccctccag	attgggtgca	2820
gccccagatg	ggtgacacca	ggatggccgt	gggccctagg	agtgactggg	gaggaggccg	2880
cgtgtgtgtg	gtgtgtgctg	gccggcaggc	atgtgcaggc	ttctgtgtat	aatctggctt	2940
gtaaattgct	cggggactgt	aactgcggaa	agggccatag	agccgcgtgg	tgttattat	3000
tatgataaag	cacagagggtg	cctgccaggg	actagaatgg	gctgagcact	gcgtgcagga	3060
tggacggcaa	attgaactcc	aattttctgc	tgggcagtct	ttgttacacg	ccacaaagcg	3120
ctggtacacc	ggggtcacca	gcctgatgaa	tgtgtgttct	tcctcagcgg	tggctccatc	3180
tctcagcctc	cgtgcagaga	ggactcgtg	ctttgttttt	tcctccctgc	ggggcccagc	3240
cttggaatct	gttcctgggc	tccaaacgca	gcctggacag	aggggagggtc	agaggccttg	3300
catggaggca	ggcggctatg	ggttcaaaac	ccagctctgc	cactgacaca	catgtgactg	3360
ggtacctctc	tcatctgagc	ttcagatgag	agaaataaaa	gagaagtcct	cbagcactc	3420
ccctaaggag	gctgggagga	ttaaatgggt	aaacatgcgc	tgctcagtgt	ggagtaggcc	3480
tttaacaaat	acccatcttt	ccttcttctg	cctgggctga	gcagcctcgc	cctgaagcca	3540
ggaaatttag	gagaagcccc	tgaaattggg	cagacaggcc	ccgtctgggg	gtggtgaggt	3600
caagccccta	aggacactg	ctgtccagct	cagccctctt	tattcaatat	tgggaaacca	3660
atgctgggtg	taagtccagag	ccactgcccc	tagctcccat	cttccccccag	cttccatctc	3720
tc						3722

<210> 1133

<211> 278
 <212> DNA
 <213> Homo sapiens

<400> 1133
 ctcgatttcc aaatcaggtc acattctgag gttttgggaa ggacatgaat ttgggggaga 60
 catattcaac ccaatacagg catcacctag tcttgtccca cagatgactt tattaacat 120
 cccttggtt ccattgttggg ccttactgtc attcatttgc cacatatttc ccaagcatct 180
 tctttgtctc aggtctgtg cccagtgccg gggctataga aaaacaggag tcttggggcc 240
 agctctcctg gcatctgtgt gatgtgttct gcttttct 278

<210> 1134
 <211> 14976
 <212> DNA
 <213> Homo sapiens

<400> 1134
 gagggggcgc gcgcacggga ggacggagag gcggaaagga tggcgctgt acagccgggc 60
 cggagccctc gcgtcccccac cccgcgccct ggccgctggg cccggcggtg agtgcgcgcg 120
 ggcggggggc gcggcggcgc ggccccctcc ccgggtcccg ggccgctggg ccgcccagga 180
 ggcggggggc ccgaggctgc gccgcgcgcg ccgcgcctt tgttgccggc ccgcccggga 240
 ggcggggcgc gccggctctc gccgcccggc aggtgcgctg gggccgggag ggggccagg 300
 ggggaggcgc gccggggcga gggggcagcg gaagcgctcc cggcgcggtt ccgcggagaa 360
 agggaaatgg ggcaagatgg ctggagaaat ccgaacgcgc cccggggcgc gccggcggtg 420
 gcgcaggcgc ggagggcgc gccggggccc tgggtgcgc ccttagcgc ggggaggcgc 480
 cccctccac ctctgccccg gagccggcag ggagaccgc gccaaagtct ggcccagct 540
 gcaggcatct gaagcctaga cccatccatg ccgcgttcgc ctatctttt tggaaatct 600
 gaaggaaccg actttgaact ccagagggat cttttctttg gaggttcccc gatgcagccc 660
 tcaagatgca tccgcactcc acacctagga attgcccgc cccatagagg gcaggagtgc 720
 ggccctttgt actggccaag agtcagcga tagagaattt gcagcccaga ggcaatgggt 780
 tatttccctg tcggggtggg cccagccga tttctgcacc tttttgggt tccaggcata 840
 accctcacta tgtttcactg actcctgcgt ttgcaagtc ccttaaggta gaatgacct 900
 attttctgaa ccagctcgtg gacagaacct ttgaatttgg aaaatccagg caatgggcct 960
 actgagccaa ccgctccgc catgcttaac tggcttctag caccattcc agttgagtaa 1020
 gtgtccaatc tgtgttcaga caccttcaact gataggaaat cagcacctt cccctgcctc 1080
 tgattcctgt ttgggtggca ctggctgtga gaaagtact cctttctcac tgcttaaaac 1140
 cttttccagg agtatttacc cactggccgc cctctgttct gccgtccagt ctctacaaac 1200
 cagtctgggt tctcttcccc agatagcttt ttaaatattt gaaggcagcc agatacgtta 1260
 tctaccaca gcctctctta tcataattaa acatgtcacc ctgtagcttc ctggccgact 1320
 cttgtttcct tacttccctc cagcgggaac agtgcttggg gctaaagagg tttgtatgtg 1380
 gctcagcctc ccccatcata ggctttggg aggtcacagt gacacctgt ttttctgaac 1440
 ctgaatcttg cttgcagaga tggagtccac agcctaccct ctcaatttga gctgaaaga 1500
 agaggaagag gaagaagaga ttcagagccg ggaactagag gacggcccgc cagacatgca 1560
 gaaagtacga atctgctctg agggcggatg ggtaagtaag aagggtgtga gtccacacag 1620
 ccagcagatg caggcctgag agcccagctt gctttaagtc tctcctcag acagacgtg 1680
 gaagtataaa tagcccagcc cgggtgttt gcattcctga gaaaacagct ctgtggcttt 1740
 aaaaggcagt gcaaagaatg gaggaggtgt tatggaaaca gtccctcagc catgtagctt 1800
 gtcatcgttc aattggaagt cctagaagcc aggacctgt ctctctcgtt caccactta 1860
 tctgcactg cgtttgatgc caggcacatt gtaggcacca agtaaatgtt tgttgatta 1920
 ctgctggtt aagggaacca ttttaaataa gactcgagtc attgggttga catgagaggt 1980
 taggctagtt ggttctgtgt gagcacctt taccacagtt gacacaggag agctgcctgt 2040
 ccagctgacc tggatagaaa tgggtggcag cagggaatac agagattcag ggtatacacg 2100
 cagaatagta tgatagaggt cggtttatac aaatgcaaat gcagtagata cttatagtta 2160
 cagatagtta ttcaccgtag ttactggact tcgtggtaat taggcatgaa tagtaaacat 2220
 tttaaataag caacaaattg acattccttt tctctgctta ttttccgtt tgtataaaca 2280
 ttgtcagtat acatagtatc ctttgcttcc atgaagagcc cctatccatacaagcatggt 2340
 acttctaaat tgttccctac cagaggagag aactgggatg cagaaagatt atctgcctt 2400

ccctaagggt	acacatgaac	actgacattt	gttcttcaaa	acaggtctcc	tgagctgcac	2460
ccttaaaagt	aatgcatttt	accatatgta	tgtctatacct	taattttaaaa	aaaaaaaaaaa	2520
cagtgaacc	acaggctctc	agtttgccag	tctagctgtg	gacaccgcgc	tgccctttgtc	2580
tcatcagtg	tctttgccc	ccacatccct	cttcccaatt	ctgatccaag	caggcgctcag	2640
gtctatttag	cctggaacaa	gaactcaagg	cagtcaaaac	tcagggtctt	gaggctagat	2700
tgggtcaacc	agaacatcta	aatggagagc	cttgagagaac	aggtgaatg	aaagtgaatg	2760
ttgggacagt	gaggaaggag	caagatgaag	accaaccatg	cttaggtggg	aaaagaagga	2820
agtaaccaga	agggctggag	gagggagtc	agcagctggt	ggtgctgggg	attgggcatt	2880
tgtggcctcc	aggcaatcag	ccatccatcc	acagttacca	agcacagtgc	tgggcgtaaa	2940
gagagactct	tttctgtatg	gaatttccag	tcttgtgagc	aaggcaggaa	agtaaacata	3000
agtaaatgta	agcacagtg	gcagagtgc	gtgggtggaag	tctgcaagga	tgaccaggga	3060
gccaagatga	ggggatgcct	cattcaggct	gagaactccg	gggcttctctg	gacaaggcct	3120
aatcttgagc	agtgaagca	tttgccccc	cccctggaca	tttggaaca	tctagaaaca	3180
ctacccctt	tccccacccc	tggatatttg	gcaatatctg	gaaacacttt	tggttggtctg	3240
acttggtggg	ggtgcgttgg	ggactgggag	atcctcctgg	catctagtgg	atagaagcca	3300
ggggagctgc	tagatatcta	cagtgcacag	gatgcccccc	caccaccaca	cacacacaca	3360
catacacaca	caacaaagag	gtaactggcc	caaaatgtca	gttgtgctga	ggttgagaaa	3420
ccctgctcta	gagcattaga	agaaaagaat	ctgttttttaa	aatatgtatt	ttggttatag	3480
agaattatgt	taggggtgatc	agtgaagct	tttcaagcat	aagaactatg	ataatatatt	3540
aggataaaat	tccatagaat	tgaaatagaa	ataaatttt	aagtagaaaa	aataaaaaaat	3600
gtgctttgaa	ctgagcttta	gtcattatgg	aatcagccaa	gggaaggga	gggggttgca	3660
ttccaggcaa	gaggacagca	caggcaaaa	caactgaggag	aggagcttgg	gtgcagagtt	3720
aggagcagct	cctgcagctg	gaacctgaaa	ctcatggcag	ggagtggaa	gggatcaggt	3780
ataggaggcc	aggccagggg	ccagagccag	ccaggaggac	atgcagtgt	acgccagcga	3840
gtttgagctt	tctccttagc	tctgtggaat	gaggccttag	cccatcttct	taaggagggc	3900
ctcaggctct	ctacagccac	catgctaagg	cctgagtggt	ctgctaagaa	agcaaagctt	3960
tggcatcaga	ctttctagct	ctgtgacct	ggacaagtta	cttaaccact	ctgtttcctt	4020
accataaaaa	gtgaggtagt	gatccccatg	tccctagttt	agcggattca	gtgagagaat	4080
atattttatat	gattgagtg	cctatacagt	gcttgcccca	tagcaggcac	tccatcagtg	4140
gatcagtaca	aactacccca	accccttccc	ccgagatccc	tgctgtctttg	ctgggtgggt	4200
gcaaggcttt	agcgaggctg	tgcaagggtg	aagcacttta	caacatttac	cctttgagat	4260
agcattggaa	tgccaacttc	ctgagcagag	caaggcagtg	cacacaagct	agaggaagaa	4320
cacttatcca	gtgagccctt	gatcttctga	ggaaagggag	gagggcaggg	actgaagggtc	4380
cctacctgca	aggccaagga	gggtgtctg	gaggtggtac	acagactgcc	tgacttctca	4440
gttttgcccg	gggcccggcc	tgtttacctt	ctgctatggt	gagccagata	aaaggcctct	4500
gtggagcgag	gggaggcctg	cgcagcaggg	cctggctgaa	ggatcgctcc	attctcacag	4560
aggcttgctg	tgaggagaat	gtctaagcca	ctacactgtg	cctctggagc	ataagtggg	4620
cttgtttgaa	gatccctcgt	ggctcagcca	ttaataggaa	gagatgaatc	ctgcaccagc	4680
cccagctttt	cttcctgcag	cttcagggtc	cctggtacct	gatgttttta	ccaggcctag	4740
aatatgttac	cccccttaag	agtattgatg	gcccctctga	aatgacaggc	atagacagtc	4800
ctgttcccat	tttatcagca	aagggaagag	gactataaat	aggtatgacc	tagatctgga	4860
acttcccagg	gagaaaaaaa	ggccaaagag	acagttcttt	aaaagcctgg	gaattgggaa	4920
aggagtaggg	tggaaaattc	ctgggtgac	tggctttcca	gggtgaggaa	gtctgaggaa	4980
agcctgaaga	cgaatccatt	ttacctcctc	atatttcaca	cttagggag	tttgtccatt	5040
cttactccaa	agagtaggtt	tggttttatg	acagataaaa	tttaatgatt	ctttgaaaca	5100
gttccaagta	gaacaagaga	agggaaatcc	agagatttgc	ctagatcgta	tattcaaaaag	5160
cacatttttc	agtgactact	agctacagga	agtgtcctcg	gcttagggaa	gcaaaaagga	5220
gtaagtacag	gtctgctttt	caacaagctc	agattctagt	ggagggagca	gacaagtcaa	5280
ccaaaagaat	tctgcagtg	gatgagtgcc	ccgggagtg	ggagcccagg	acatttcagg	5340
gacatgtggg	tgtgtccaca	gcgtggcaca	gagtggtgtt	cctcgggagc	agggattttg	5400
ggctgagtc	tggaaagatg	gtgggtgtca	gccagaccaa	gaaggggag	gccctccaag	5460
gccaggggag	aatatggggt	aggtgtggg	ggcgttggg	aatggttgtt	cagggaaactg	5520
cacacagctg	agtacaagtg	gagcacagag	ctggggagag	ttgaggggta	gtcatcaggg	5580
aggcagctgt	gctcggtatt	gctggatcct	tggggtcagg	cggtgggtgg	cccaaaacgc	5640
aacccaccca	tttattggct	atgacattag	cctggaaatg	agacctctcc	aagcccatat	5700
tctccttgat	taagtagggt	catggtggct	tgtgcctcta	atcccagcta	ctagggaggc	5760
tgaggcagga	gaatggcttg	aactcaggag	gcagaggttg	cagtgaacca	agatcggtgc	5820

actgcactcc	agcctgggca	acagagcaag	actccatdc	aaaaaaaaa	aaaaaaaaa	5880
ggcgtatcta	ctcctccaca	ggcccatg	agggaataaa	tgaagcagtt	acaggccctt	5940
tcctagtagc	tgcttcctat	gtatgaggtg	ctgtggaggt	ggggagagaa	caagggggct	6000
tccttgggtc	agggaggaaa	ggccaatgta	tgtaagtac	tggtggcctg	accctgaag	6060
tggctgcagg	ctatatagca	tatggacact	aattttctaa	gctaaggaaa	aacagtatca	6120
taatcaccca	gacccaagat	acagctttgg	gaaatagctt	tgaaggcaag	aatacaaaat	6180
aaccagcctg	aaacaagcca	tccagtgcct	tcttatcact	aaataggatg	agctttggag	6240
taggattttt	aatgactgta	ataagaaata	caattaaaaa	caaaaagagg	aggttggttt	6300
gggtggcctg	gctgccttgg	gctactgagg	agccccctgg	tgctgggcca	ggaagcagag	6360
gaacagggga	gggacgcagt	cctttgggct	ttctgcctac	ctggtccagg	atcaaagtga	6420
atgagtttgc	tctggcatct	cattacatat	attaagctgt	aattagccct	tctttcttcc	6480
tcttcatgct	cttgtggatt	ggaaaggcca	aataggggcc	cttctctcag	tggtcctcc	6540
ctgggcagct	gtgggttcca	agtctaacac	tttgggttagt	acccttggaa	atgcagtgcc	6600
ctggaaaccc	acaaagatcc	cacggagggc	agtgatccta	ttcagattta	caaaccacac	6660
tcaccccgcc	cggggccgag	ggtcttttct	tggggtggga	gggaattggg	ggtgcttgtg	6720
ttggtgggac	actttgtctg	ggtgtgggtg	gcttaagctc	tgggtcagag	gtgagccgtg	6780
agcagctctc	accacagtgc	atgagggtgc	gatgtcccat	gtcctccaac	cgggtgatcat	6840
ggtaggaggt	tagttttctt	ctcaaagtgc	tgcttacctt	atctgaactg	aggggtggag	6900
ctgctgtggt	gggcacagaa	ggactgtgct	cttgcccttg	ttggcttcca	gcagctgtat	6960
gaatgtggac	agtccgtttt	cccctgggtc	agggctccctc	acctgacctg	tgagaggaca	7020
ggctgtgctg	ggctgtctgt	aaggctcctgt	ccgctctgaa	agtctgtctg	catatgcctg	7080
tttgtcattg	tgaagggtct	gtcactctt	ccaggtagcg	gccctatttg	atgaggtggc	7140
catatatttt	tccgatgagg	aatgggaagt	tttgacggag	caacaaaagg	ccctctaccg	7200
ggaagtcatg	aggatgaatt	atgaaactgt	cctgtccctg	ggtaaagctg	tgttttcctt	7260
tgtctcctgg	aagctctgag	cccagagaat	tgtttccatg	cctctcttct	cggtatatac	7320
caatgtccct	ctctcctgaa	cttagactct	gcctcctcaa	tgtctgtgcc	catttatctc	7380
aatttttgat	ttgggcagta	tatcaatatt	gtgtcaccct	actcggcaat	ccgtgctgcc	7440
tcagaactgc	ccccattcaa	cccaggcatt	cacattttaag	gataaaaacc	atgtaacctt	7500
agaaatgtca	ccatggtctt	gggcctgtgc	ctcactgttc	cttacgagag	aaggcaggcg	7560
ttaatgtttac	cctgtcagcc	tcagaagttt	ggggacatag	cctcccaaag	actgtttgct	7620
cctctcccca	acttccaccc	caaattgata	tcacacatct	tatcagcaga	atgtaatcat	7680
ttgaagagat	ttcccagttt	gcttatacag	gtaccaaagt	gttaattgga	tcagcagctg	7740
cattcacccct	tctccctgct	aatgcagtt	cttttattgt	tggtgccaat	accatccctc	7800
attaggagag	atctacccat	tccttttagac	agacctattt	tccattatct	tttttcttta	7860
agtatccctg	agcctttttc	cccttgtttt	tcacaaagaa	ggggagagtg	gctcttaagt	7920
attttgaagt	acttattttg	gtagtgtctc	aggacagtaa	cacacagctg	ttacctattt	7980
tatttcctat	aaacagaatt	cccattccct	aagccagaca	tgatcaccgc	tttggaaggg	8040
gaggaggagt	ctcagaattc	tgacgagtgg	cagctccaag	gaggcacctc	tgacaggtact	8100
acaagtaaa	cagttcagcg	tccatccagc	tgggaaacatt	gggagtggg	attttcagtg	8160
tacattccac	ggggtattta	agaggtagaa	ggattatggg	ttttggagtt	ttgaaatctc	8220
cctcttttga	gtgctaaatg	tgtgacagtg	tgtgacaggc	aactgctttt	acctcagagc	8280
ttccattctt	cctctatcag	ctctgagtaa	caagacttga	tgtatgacct	tgtttgtgga	8340
tgaagcaaaa	tgaggcttgt	gcagcatttg	gtctagtgtc	ccttctggct	gaacagggct	8400
ccctcagtg	cgtaccatgt	gcctctgcaa	actaagaata	gtgagaggaa	gcacacttcc	8460
tgagttacct	ggctccctgt	ccatctcata	ctggatagaa	aaagcaatag	caatcatagc	8520
atacatttga	gcaaatgtat	ctaagaagta	cctagtctt	tgtcaagaaa	aatggttatt	8580
gaggccacag	ttgaataaat	atagcattgc	ctccagacgg	ccaaaatagt	tttatctttt	8640
ctccggaagt	aagagtttaa	aatgccatat	ttcactgact	ctgagacatg	tttttctccc	8700
attgctttac	tgtttctgaa	attgagaatg	cctcttaaaa	tcagtggcat	gtcatagctt	8760
aattagtagt	gttttctttc	ttaatggcac	ataatgatgc	atcctacaac	tgatgacatt	8820
ttagtttggg	tgagataggg	taatttcccc	aatatcatatt	caacttctgt	gaccaccttc	8880
taaatataaaa	tgaaaacctg	gttgacacct	taatgtgcaa	gaactaattt	tctgccttat	8940
aagcttaact	ttgctaagtg	tggtttttgc	tgtagggttt	cttggttcta	aagggatatg	9000
attcaggcca	tgatgcatct	ctgtaaatatt	atatggtagt	atgggttaaca	tttggcttct	9060
cattcacata	aaaagtattt	tgatgcaaac	atggccccc	aattattttg	tccaagcttg	9120
gttctctgt	tgagttccca	gctctgccac	tttctggctt	ggctaccttg	gtgcattatg	9180
taacctctgt	agcctccctt	tcttcatctg	caaagaagga	acagtgatac	ttagagttac	9240

tctattaaga	gaactaggtg	tgggtagtcc	acataaattg	gcatatggaa	aaggacttag	9300
gcaatgttac	ctgttattaa	agttactact	tttgggtgaac	ttcagattaa	ggtattctta	9360
gcatttcaac	ccccaaaaat	cagggtataa	gccattttac	ttactggcat	tatttttgcc	9420
cctcactatt	tgtctcccag	aaaatgaaga	atctgacgta	aagcctccag	actggccaaa	9480
cccaatgaat	gctacctccc	agtttcctca	gcctcagcac	tttgacagct	ttggcctccg	9540
tctgcctcgg	gatatcacag	agctgcccga	gtggagttag	gggtaccctt	tctactggc	9600
catgggcttc	ccagggtatg	acctctcggc	tgatgacata	gctgggaagt	ttcagttcag	9660
ccggggcatg	cgccgcagtt	acgacgcagg	gttcaagctg	atggtagtgg	aatatgctga	9720
gagtaccaac	aactgccagg	ctgccaagca	gtttggagta	ttggaaaaaa	acgttcgaga	9780
ctggcgcaaa	gtgaagccac	agcttcaaaa	cgcccacgcc	atgcggcggg	cattccgagg	9840
ccccaagaat	gtgaggtttg	ctctgggtga	ccagcgtgtg	gccgaatatg	tcagatacat	9900
gcaggccaaa	ggggacccca	tcacccggga	ggcgtatgcag	ctgaaagctc	tcgaaatcgc	9960
ccaggaaatg	aacattccag	agaaaggggt	caaggcaagc	ttgggttgggtg	tcgaagaat	10020
gatgagaagg	tatgacctgt	ctctgaggca	taaagtgcc	gtgccccagc	acctgccgga	10080
agacctgact	gagaaactcg	tcacttacca	gcgcagtgtc	ctggctctgc	gcaggggcgca	10140
tgactatgag	gtagctcaga	tggggaatgc	agatgagacg	cccatttgtt	tagagggtgc	10200
atcagggtga	actgttgata	accagggcga	aaagcctgtc	ttggtcaaga	caccaggcag	10260
ggaaaaactg	aaaatcacag	caatgcttgg	tgtcttggct	gatgggagga	agttaccacc	10320
gtacatcatt	ttgaggggaa	catatatccc	ccgggggaag	tttcccagtg	ggatggaaat	10380
tcgctgccac	cggtatgggt	ggatgactga	agacttgatg	caggatgggt	tggaagtgggt	10440
gtggagacgg	aggacaggag	cagtgcccaa	gcagcgaggg	atgctgatct	tgaatggctt	10500
ccggggccat	gccacagatt	ccgtgaagaa	ctccatggaa	agcatgaaca	ctgacatggt	10560
gatcatccca	gggggtctga	cctcacagct	tcagggtgctg	gatgtcgtgg	tctacaagcc	10620
actgaatgac	agtgtgcggg	cccagtactc	caactggctt	ctggctggga	acctggcgct	10680
gagcccaacc	gggaatgcta	agaagccacc	cctgggcctc	tttctggagt	gggtcatggt	10740
cgctgtggaat	agcatctcaa	gtgagtccat	cgtccaaggg	ttcaagaagt	gccatatctc	10800
cagcaacttg	gaggaggaag	acgatgtcct	gtgggaaatc	gagagtgagt	tgccaggagg	10860
aggagaacca	ccaaaagatt	gtgacaccga	aagcatggct	gagagcaact	gaagggaag	10920
ggaaaggtaa	ccactcagga	gtagatactc	agtgcctttg	ctgacatgtc	tgtgttctac	10980
aaacaccttc	tctccattat	tttctgtttt	ttaagttccc	ttagagccta	cagtgcagta	11040
gtgtagatca	gggggtcccc	acccccagg	cacggaccat	actgggtccat	ggcctgtcag	11100
gaactgggct	gcacagcagg	aggtgagcgg	cagggtgagca	agcattacca	cctgagctcc	11160
gcccgtgtc	acagcagcgg	cattagattc	tcataggagc	acaaaccctg	ttgtgaactg	11220
cacatgtgag	ggatctagggt	tgcaggctcc	tcaagcctg	aggatctgag	gcggaacagt	11280
ttcatcccaa	agccatccta	ccacccacta	ccccgcactt	cctgggtccc	tgcaaaaatt	11340
gtcttccatg	aaaccagtcc	ctggtgccag	aaaagttggg	gactgctggt	atagataaca	11400
gaccattagc	attttctcct	ttatatgaaa	catttattat	ttgatttatt	tgtgtctatt	11460
ttgctctgtg	gcttggaccc	agaaacactt	gtataatagg	tgaaatgaac	aaagaatgag	11520
ctgccagaac	atctgagagc	tgtaaagtta	aaattatttg	gacccaaaga	agcatagtct	11580
gacgttgttc	agttcacaca	aaattttgtc	tgaaaagcca	acttttttct	ttccctttta	11640
aattatgctg	aacattttagg	gccagtatg	gtaactgaca	tgctggggaca	gttgtactca	11700
cttttgctgg	cctgtaggac	tgtgacatag	ggagaacact	aagtgtgtcc	tccgggcctc	11760
gggtctcagt	cctggagcta	tctacagtat	gttaccagcg	agtaagaata	atagcttcta	11820
cttgcttttc	cctacagagt	tcaggagttt	taaaacgtca	tcttagtctc	attatgacct	11880
tcacatgggc	tatgacaata	atttcctgta	gtcagcagat	gtctgaagga	agatattttt	11940
taactgaatc	tttacaccaa	aaaaagaaaa	taaaacgggtg	cgtatctagg	actctagtga	12000
gggctgagga	caataggcct	ggaattttct	gggttgagta	cacaagaaga	acagctttca	12060
aaggaaagta	ggaatggagg	cctaactgag	acaacactag	tgaaatgacc	ccacccacct	12120
acacctccag	agaggaggag	gatgagcatg	tacagcaggg	gggacaccca	caaagaacaa	12180
acaattcatt	tacctgttcg	ttctcatctc	cctaattata	aatttaaattg	atcctccaga	12240
cagtgtttta	tatgaaggaa	gaagccacct	tttttacaga	ggacctgaaa	ccgtaacca	12300
tcttcacaca	ttctttttct	ttctttttaa	gtataattag	gtattttccat	cttccttgct	12360
tttttctcca	aatgaaatgc	taatgggagc	cttattttac	ccacttcagc	tatataagtc	12420
catctgtgtt	tcaaagagtg	acttatgtct	cctgccttgc	ttccaaatta	aattgtactc	12480
atattgctga	atcccatgtt	aattctggga	tccttggaat	tacaatggag	caagaagtgc	12540
ttactattac	attcaaaaatc	accaaatttg	cttttttttc	ccccttgggt	cctccttgct	12600
ttgagaaacc	ccatgaatcc	agcctccctt	ttctgctgac	ccttatattg	cctgcattgg	12660

atatcaaact	gaattacatt	gagtttccat	cttttcttca	tttaccttt	gcttttccct	12720
ctccttggtt	gataacattt	ttgtgcactt	ttaatttctt	aagctcctta	ccacctcagg	12780
gacatgatta	aaaacttcca	gaagaggaaa	ggagaaaaag	ctatgctaag	ttgcatttat	12840
gaatgttggc	ctgtaatat	ggatcatgagc	ttttgctctt	ctagtctgcc	acaattctct	12900
ctgcagctcc	tgaggaaagt	atgggagtag	acagattcac	agtgaacaag	agatttgggg	12960
gaccaagtgg	gcataaaact	acgtcttggc	ctctatattg	aaatctgaat	gatggaatta	13020
ttatgtttgt	taaaagtatt	acaaaaagc	caagggttaa	ttcatttagg	ttctctctgt	13080
tttccagcaa	atggaactct	gattttaaaca	gctgggggat	aaatcctca	agatgattat	13140
tcctgaaagt	gtggatgcgc	tggatgcgca	gggaacatca	ggaaaaggcc	acggggctct	13200
gaacagcccc	ggtccagaca	gcagcctgta	catccatccc	aggacacagc	ccagcccctc	13260
cccacaccat	acaaggatc	agaaaagtct	aggacctatc	atttcatcag	agacatgatc	13320
agaaaagaaa	ctgcttctgc	cccatttctt	gttttgagaga	ttactccatc	tgtccatcaa	13380
aagaaacctg	taaatatgaa	agaacaaaag	ttatttctct	gagaaaagac	aattttattca	13440
acaccaacga	gggactcatc	atatgggcac	aactctgggt	tccttctatg	gagaaaacct	13500
caagtaaagt	tttattctgc	ctttgaaaat	gcttccaaa	gtagaccctg	tccccacaca	13560
ggtcaagact	acagagaagg	ctttgtagaa	atgtgtcacc	tatgtacacc	tgctacttac	13620
acatttcttc	ttttggaaaa	atgagatact	tagaataaca	agaaaattaa	gacatactgg	13680
ccctggtgcca	gcagatggct	tttctataga	caaactagggt	tagtgtggaa	gatatagggt	13740
aaaataaact	atgctgtttt	atttatcttc	ccaacctgat	tggcagctag	acttttttag	13800
ggtctcattt	aatggccctg	tttttttcat	tattatattt	aatgataggg	caggatttct	13860
tatgcaagct	cttgtttctc	aggctgcctg	cagaagaagt	cgctataaat	tatctgttgt	13920
ctacatggta	caaggcccat	tgactcatct	gagcttgtt	ttgttaattt	ctttaatatt	13980
tttatcacgg	ggcagtggga	gggcttgggc	tttttagccac	agctgtttta	agacttctga	14040
tctctgcgcc	gtgggaagt	cattgaattt	ttacactata	gtaatttgca	14100	
ttccccata	agtttgagt	ttacgaaaac	attcctttta	agggatctgt	gctacacaaa	14160
atatgccagg	acctcacaga	caaagccatt	gctagaaatg	tcattccaat	gatcagatct	14220
ggaaacaggc	tgccataacc	acttttctct	cttgtagact	cagctcacct	gtatatttaa	14280
actgttcttg	gcactctgaa	acacctat	ctactcagg	actcattgtc	ctgttactga	14340
ttcacctttc	tgatcctttt	caaccagt	tcccccaagg	ggggaaattt	tacttaacct	14400
ctagtatttg	aacaactcaa	tatttgaatt	gttgccccat	ttgcttttac	ctgtactgta	14460
ttcttggtca	tctcaaatgg	cgtctaaaac	cagctacttt	gcattccaga	agtttccatt	14520
ccctccaatt	ccacctaat	tttcatctgt	cctagtact	ggctctttct	tcattgtcta	14580
tttctcttgc	tttgggagct	taaaagattt	tacaagacct	aattttgggt	tccttccctg	14640
gagccatagt	taccctgcc	agaagagtag	aaaatgggt	caactcctgt	ttcgctccac	14700
caacacctct	gtgagtctca	tcacagctg	agcgatgat	ccttacagg	tgcatagcac	14760
tggaaatttc	ctagagtaac	ggctctgctg	ccagggtttc	tctgggctca	ttcttccact	14820
tgatttaatta	tgatctatgc	ctaacagagc	cccagtaaca	ctattttgca	gaatggctgt	14880
taccctagaa	ttactatagc	acatattgag	atatagttgt	actccctagt	agataggaac	14940
tgaccccaac	aataaacttt	gataataaag	acaata			14976

<210> 1135
 <211> 720
 <212> DNA
 <213> Homo sapiens

<400> 1135						
gtcttccagc	attctatggt	cccaccaggt	gggtaggtga	ctaggaattc	aggccaggtc	60
ctagagagta	gtgagaagtt	ttccagtttg	cagtttctct	tgtgctgtat	gtacagccat	120
acagcctatg	gaacctgaca	ttgcagtggt	cagcaggaca	cggtcaaggc	tcctagctgc	180
ctctccatct	atggaactat	gaaatttcac	catattccc	taggcagcat	taaggcccag	240
gtatatttgag	tagtccaaac	caaaaaacta	tattcgagta	tcagttttaa	ttcttccaag	300
ccctaaaaat	tcttacgtag	tttctcacct	aaaactaatg	gcttgtgcca	agaactgaaa	360
ctaagctatt	gatttttttt	taagaagtct	taatctatac	ataagaaatt	acatacctgg	420
ccagggtgcag	tagttcaggc	ctgtaatcct	aacaaacact	ctgggaggcc	aagggtgggca	480
gactgcttga	gctcaggagt	tcattaccag	tctgggcaac	atgataaaac	cgtgtcttta	540
caaaaaaaa	aaattttaaa	ttagccgggc	atgggtggtg	gaatctgtag	tcccagctac	600
ttaggaggtt	gcgatgggag	aatcacctga	gccagagggt	ccagtctgca	gtgagccatg	660

atcacaccac agcactccag ctgggggtgac agagttagac cctatctcaa aaagaaaaga 720

<210> 1136

<211> 3126

<212> DNA

<213> Homo sapiens

<400> 1136

cttggcaatg	tattaaacag	caggccttgg	agactagcac	ttgagttaac	acagccacca	60
caaccaccac	tgccatcatc	accttcccgg	aaagcagcca	cctgtctggc	tcctggcttt	120
gtccagctgc	caacctaagg	catgtgccta	cgcaggaggc	gatgacattt	tggctccacg	180
ttcaaagtgg	tttttttttt	cctttctcat	gtgttatttc	taaagataac	aaaggtcaaa	240
aggcatccag	cgttttctgg	tttctcataa	gcttctggtc	aatattttaat	ctggtttatg	300
gatttttttt	aggtcttcta	gatgccttct	tgaggctgct	tgtggccacc	cacagacact	360
tgtaaaggag	agagaagtca	gcctggcaga	gagactctga	aagagggat	tagagggtgt	420
caaggagcaa	gagcttcagc	ctgaagacaa	gggagcagtc	cctgaagacg	cttctactga	480
gaggtctgcc	atggcctctc	ttggcctcca	acttgtgggc	tacatcctag	gccttctggg	540
gcttttgggc	acactgtgtg	ccatgctgct	ccccagctgg	aaaacaagtt	cttatgtcgg	600
tgccagcatt	gtgacagcag	ttggcttctc	caagggcctc	tggatggaat	gtgccacaca	660
cagcacaggc	atcacccagt	gtgacatcta	tagcaccctt	ctgggcctgc	ccgctgacat	720
ccaggctgcc	caggccatga	tggtgacatc	cagtgcgaatc	tcctccctgg	cctgcattat	780
ctctgtgggtg	ggcatgagat	gcacagtctt	ctgccagaa	ccccgagcca	aagacagagt	840
ggcggtagca	ggtggagtct	ttttcatcct	tggaggcctc	ctgggattca	ttcctgttgc	900
ctggaatcct	catgggatcc	tacgggactt	ctactacca	ctggtgcctg	acagcatgaa	960
atttgagatt	ggagaggctc	tttacttggg	cattatttct	tcctgttct	ccctgatagc	1020
tggaatcatc	ctctgctttt	cctgctcatc	ccagagaaat	cgctccaact	actacgatgc	1080
ctaccaagcc	caacctcttg	ccacaaggag	ctctccaagg	cctggtcaac	ctcccaaagt	1140
caagagttag	ttcaattcct	acagcctgac	agggtatgtg	tgaagaacca	ggggccagag	1200
ctgggggggtg	gctgggtctg	tgaaaaacag	tgacagcac	cccaggggcc	acaggtgagg	1260
gacactacca	ctggatcgtg	tcagaagggtg	ctgctgagga	tagactgact	ttggccattg	1320
gatttagcaa	aggcagaaat	gggggctagt	gtaaacagcat	gcaggttgaa	ttgccaaagga	1380
tgctcgccat	gccagccttt	ctgttttctt	caccttgcctg	ctcccctgcc	ctaagtcccc	1440
aacctcaac	ttgaaacccc	attcccttaa	gccaggactc	agaggatccc	tttgccctct	1500
ggtttacctg	ggactccatc	cccaaaccga	ctaatacat	cccactgact	gaccctctgt	1560
gatcaaagac	cctctctctg	gctgaggttg	gctcttagct	cattgctggg	gatgggaagg	1620
agaagcagtg	gcttttcttg	gcattgtctt	aacctacttc	tcaagcttcc	ctccaaagaa	1680
actgattggc	cctggaacct	ccatcccact	cttgattatga	ctccacagtg	tccagactaa	1740
tttgtgcatg	aactgaaata	aaaccatcct	acggtatcca	gggaacagaa	agcaggatgc	1800
aggatgggag	gacaggaagg	cagcctggga	catttaaaaa	aataaaaaatg	aaaaaamac	1860
ccagaaccca	tttctcaggg	cactttccag	aattctctca	tatttgtggg	ctgggatcaa	1920
gcctgcagct	tgaggaaaagc	acaaggaaaag	gaaagaagat	ctggtggaaa	gctcagggtg	1980
cagcggactc	tgactccact	gaggaaactgc	ctcagaagct	gcgatcacia	ctttggctga	2040
agcccctgcc	tcactctagg	gcacctgacc	tggcctcttg	cctaaaccac	aaggctaagg	2100
gctatagaca	atggttttct	taggaacagt	aaaccagtgt	ttctagggat	ggcccttggc	2160
tgggggatga	cagtgtggga	gctgtggggt	actgaggaag	acaccattcc	ttgacggtgt	2220
ctaagaagcc	aggtggatgt	gtgtggtggc	tccagtgggt	gtttctactc	gccagttag	2280
aggcagcccc	ctagaaaactc	ttcaggcgta	atggaaaatc	agctcaaata	agatcaggcc	2340
ccccagggtg	ccaccacacag	agcactacag	agcctctgaa	agaccatagc	accaagcgag	2400
ccccttcaga	ttccccact	gtccatcgga	agatgctcca	gagtggctag	agggcaccta	2460
agggtccag	catggcatat	ccatgcccac	gggtgctgtg	ccatgatctg	agtgatagct	2520
gactgctgc	ctgggattgc	agctgaggtg	ggagtggaga	atgggttcca	ggaagacagt	2580
tccacctcta	aggtccgaaa	atgttccctt	taccctggag	tgggagttag	gggtcataca	2640
ccaaagggtat	tttccctcac	cagtctaggc	atgactggct	tctgaaaat	tccagcacac	2700
ctcctcgaac	ctcattgtca	gcagagaggg	cccacttgtt	gtctgtaaca	tgcttttcac	2760
atgtccacct	tcttgccatg	ttccagctgc	tctcccaacc	tggaaaggccg	tctcccctta	2820
gccaaagtct	cctcaggctt	ggagaacttc	ctcagcgtca	cctccttcat	tgagccttct	2880
ttccccactc	catccctctc	ctacccctcc	ctcccccaac	cctcaatgta	taaattgctt	2940

cttgatgctt agcattcaca atttttgatt gatcggttatt tgtgtgtgtg tgtccgatct 3000
cacaagtata ttgtaaaccc ttcggtgggt gggggccata tcctagacct ctctgtatcc 3060
cccagactat ctgtaacagt gccaggcaca cagtaggtgatcaataaaca cttgttgatt 3120
gagtaa 3126